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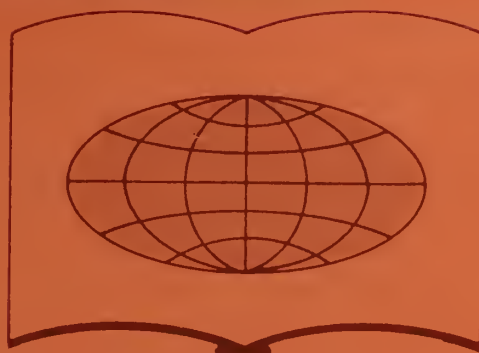
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Pesticides DOCUMENTATION BULLETIN

U. S. DEPT. OF AGRICULTURE
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Volume 4
AUGUST 16, 1968

Number 17



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PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4

August 16, 1968

Number 17

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural, ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

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The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

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Abstract: Levels of activity affected by light, tempera-
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 W W McMillian K J Starks
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 Plant nematode resistance, Sorghum, Spodoptera.
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Anthonomus grandis, Insect physiology, Proteins.
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 K E Moon P J Schofield
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 Amino acids, Chemistry, *Haemonchus contortus*, Insect metabolism, Insect physiology, Isocitrate dehydrogenase, Larvae, Radioactive tracers, Tricarboxylic acid cycle.
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 English abstract
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 M E Nathanson
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 Insect anatomy, Ixodidae.
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Anthonomus grandis, Antibiosis, Cotton.
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 R E Pfadt
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 L G Pickens N O Morgan J G Hartssock J N Smith
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 Insect taxonomy, Muscidae.
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 M D Proverbs J R Newton D M Logan
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 Biological control (insects), *Carpocapsa*, Gamma rays, Sterilization.
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Acyrtosiphon pisum, Amino acids, Biochemistry, Cystathionine, Cystine, Insect metabolism, Metabolism, Methionine, Sulfur.
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 ESTIMATION OF CARCASS ANALYSIS OF THE GROWTH REQUIREMENTS FOR AMINO ACIDS IN THE CODLING MOTH, CARPOCAPSA POMONELLA (LEPIDOPTERA: OLETHREUTIDAE).
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 Amino acids, Insect nutrition, *Olethreutidae*.

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D Rosen
J Econ Entomol 6D(5):1422-1427
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ALITICINAE OF GUADALOUPE (COL. CHRYSOMELIDAE). (GE)
G Scherer
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Chrysomelidae, Insect taxonomy.
French abstract
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AN ENVIRONMENTAL CABINET WITH VARIABLE AIR VELOCITY FOR INSECT STUDIES.
K R Scott
Can Entomol 100(1):89-93
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Air flow, Equipment, Insect cages, Insect ecology, Temperature.
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SOME ECTOPARASITES FROM WEST VIRGINIA MAMMALS. II.
J P Shoemaker S J Joy
W Va Acad Sci Proc 39:78-8D
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Acarina, Anoplura, Diptera, Insect taxonomy, Mammals, Parasitism.
Abstract: From June 9, 1966, to September 21, 1966, 65 West Virginia mammals were collected for parasitological examination. Nine species of ectoparasites new to the state were found: Mites, *Gaemogamassus liponyssoides* on *Blarina brevicauda*; *Hirstionyssus* sp. and *Laelaps kochi* on *Microtus pennsylvanicus*; *Ornithonyssus wernecki* and *Archeanobia inexpectatus* on *Didelphis marsupialis*; *Blarinobia simplex* on *Blarina brevicauda*; *Listrophorus* sp. on *Microtus pennsylvanicus*. Lice, *Hoplopleura hesperomydis* on *Peromyscus leucopus*. Flies, *Cuterebra peromysci* on *Peromyscus leucopus*.
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INFLUENCE OF PHOTOPERIOD AND TEMPERATURE ON DIAPAUSE IN THE FACE FLY, *MUSCA AUTUMNALIS* (DIPTERA: MUSCIDAE).
J G Stoffolano Jr J G Matbyssse
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Insect biology, Muscidae.
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T W Sumner
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Spiders, Taxonomy.
Abstract
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V I Tobias
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Aphrastobracon jacobsoni, Braconidae, Insect taxonomy, Oriental region, Zoogeography.
English abstract.
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EGGS OF FLOODWATER MOSQUITOES (DIPTERA: CULICIDAE). XI. EFFECT OF MEDIUM ON HATCHING OF *AEDES STICTICUS*.
M Trpis W R Horsfall
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Aedes, Culicidae, Culture media, Insect cultures, Insect eggs.
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I Vilagiowa
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Heterotylenchus autumnalis, *Musca autumnalis*, Muscidae, Nematodes, Parasitism, Pastures.
English and Czechoslovakian abstracts.
Abstract
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NEW GENERA, NEW SPECIES OF AFRICAN HEMIPTERA, REDUVIIDAE. (FR)
A Villiers
Soc Entomol France Ann 3(1):137-149
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Insect taxonomy, Reduviidae.
Abstract
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MOSQUITOES OF THE GENUS *CULISETA* IN CONNECTICUT (DIPTERA: CULICIDAE).
R C Wallis L Whitman
Entomol Soc Wash Proc 70(2):187-188
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Culicidae, *Culiseta*, Entomology, Insect identification, Insect taxonomy.
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PYRUVATE KINASE IN *HAEMONCHUS CONTORTUS* LARVAE.
C W Ward P J Schofield I L Jobstone
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Biological assay, *Haemonchus contortus*, Insect metabolism, Larvae, Parasites, Pyruvate kinase.
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P R Wilkinson
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Dermacentor alhipictus, *Dermacentor andersoni*, *Dermacentor variabilis*, Insect dissemination, Ixodides, Microclimate.
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R Witherspoon E C Burns
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S L Wood
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Insect taxonomy, Scolytidae, Trees.
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Aphididae, Crop varieties, Homoptera, Insect adaptation, Insect nutrition, Insect physiology, Leaves.

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NAUPOETA CINEREA.
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Biochemistry, Electrophoresis, Glands (insects), Hormones,
Insect physiology, Naupaoeta cinerea, Proteins.
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A WATER-SOLUBLE FACTOR IN MELILOTUS OFFICINALIS LEAVES
WHICH STIMULATES FEEDING BY THE ADULT SWEETCLOVER WEEVIL.
W R Akesson H J Gorz F A Haskins G R Manglitz
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15 Aug 1968 421 J822
biological assay, Chromatography, Extracts, Feeding,
Insect behavior, leaves, Sitona cylindricollis, Stimulants,
Water, Yellow sweetclover.
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PATTERNS OF STRUCTURAL DIVERSITY IN THE MALES OF SOME
PHLAEOPHILOUS TUBULIFERA. (THYSANOPTERA).
T N Ananthakrishnan
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Antennae, Insect morphology, Thysanoptera.
French abstract
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THE BIOLOGY AND ECOLOGY OF ANAPHES FLAVIPES (HYMENOPTERA:
MYMARIIDAE), AN EXOTIC EGG PARASITE OF THE CEREAL LEAF
BEETLE.
R C Anderson J D Paschke
Entomol Soc Amer Ann 61(1):1-5 REF
15 Jan 1968 420 EN82
Anaphes flavipes, Insect behavior, Insect biology,
Insect ecology, Insect eggs, Mymaridae, Oats,
Oulema melanopus, Parasitic insects, Wheat.
Abstract: Virgin females of the parasite Anaphes flavipes
produced male progeny, while both sexes emerged from eggs
parasitized by mated individuals. Development occurred
exclusively in pre-embryonated host eggs. Parasitized
Oulema eggs from which Anaphes were reared or dissected,
an average of 3.3 parasites per egg was evidenced at an over
all female:male sex ratio of 3:1. Parasitized Oulema ova,
found in nearly all wheat and oats fields where significant
populations of the beetle occurred were obtained from early
May through late July.
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EUROPEAN RED MITE AND TWO-SPOTTED SPIDER MITE CONTROL ON
APPLE TREES.
D Asquith
J Econ Entomol 61(4):1044-1046
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Acaricides, Apples, Biochemistry, Chemical control (insects),
Insecticides, Panonychus ulmi, Tetranychus urticae, Trees.
Abstract: Insecticides used were: Plictran, Azodrin,
CS-19851, NC-5016, and Tranid were highly effective in
control of both species. Omite (2-(p-tert-butylphenoxy)
cycohexyl 2-propynyl sulfite) EC was as effective as the
former group of acaricides in control of the European red
mite, but it was not quite so effective in control of the
two-spotted spider mite.
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NOSEMA APIS AND DYSENTERY OF THE HONEYBEE.
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Apis mellifera, Dysentery, Insect diseases, Nosema apis,
Nosema disease, Social insects.
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VARIATIONS OF PHOSPHOLIPIDS IN THE COURSE OF METAMORPHOSIS
OF TRIBOLIUM CONFUSUM (COLEOPTERA). (FR)
A R Beaudoin J L Villeneuve A Lemonde
J Insect Physiol 14(6):831-840 REF
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Chromatography, Extracts, Larvae, Lipids, Metamorphosis,
Phospholipids, Silicic acid, Tribolium confusum.
Abstract in English
Abstract: Phosphatidylcholine and phosphatidylethanolamine
were the major constituents. The major changes were noted
at the time of pupation and adult emergence. Significance
of these variations is discussed.
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ESTIMATION OF OVIPOSITION BY THE FIR ENGRAVER, SCOLYTUS
VENTRALIS (COLEOPTERA: SCOLYTIDAE).
A A Berryman
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Abies grandis, Insect outbreak forecasting,
Insect populations, Ovulation, Regression analysis,
Scolytidae, Scolytus ventralis, Statistical methods.
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A VIRUS DISEASE OF THE EUROPEAN RED MITE PANONYCHUS
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Can J Microbiol 13(8):1131
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Panonychus citri, Panonychus ulmi, Virus diseases (insects).
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TAXONOMY AND THE INTEGRATED CONTROL OF MITES. (POL)
J Boczek
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1967 464.9 P87
Insect ecology, Insect identification, Insect taxonomy,
Integrated control (insects), Mites.
English and russian abstract
Abstract
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IMMUNOCHEMICAL ANALYSIS OF THE ORIGIN OF A SEX-SPECIFIC
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R P Bodnaryk P E Morrison
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Blood proteins, Diffusion, Electrophoresis, Immunochimistry,
Insect morphology, Larvae, Musca domestica.
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AN INTERESTING PARASITE OF THYSANOPTERA: TETRASTICHUS
GENTILEI (HYM. CHALCIDIDAE). (FR)
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Diapause, Eulophidae, Hymenoptera, Insect morphology, Larvae,
Parasitism, Tetrastichus gentilei, Thysanoptera.
Abstract
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RICE WATER WEEVIL RESISTANCE TO ALDRIN IN TEXAS.
C C Bowling
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Aldrin, Biochemistry, Chemical control (insects), Immunity,
Insecticide application, Insecticides,
Lissorhoptrus oryzophilus, Research, Seedlings.
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PYGIDIAL GLANDS IN MALE OPIUS (HYMENOPTERA: BRACONIDAE).
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Pygidial glands.
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DESTROYING INSECTS.
B R Buckley N Van Uden
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Candida shehatae, Culture media, Soil microorganisms,
Wood-destroying insects, Yeasts.
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world from insect-invaded wood, from the insect Leptura
cerambyciformis, and soil.
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(POL)
S Byrdy K Gorecki J Hurny
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Chemical control (insects), Insect control,
Organophosphorus compounds.
English and russian abstract
Abstract

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MIGRATORIA MIGRATORIOIDES. (FR)
M Casal A Girardie
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Body fluids, Corpora cardiaca, Diuresis, Esophagus,
Insect physiology, Locusta migratoria migratorioides,
Malpighian tubes, Nervous system, Rectum.
English summary.
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Tetrigidae, Tettigoniidae.
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Agropyron repens, Bromus inermis, Cicadellidae, Durum wheat,
Endria inimica, Environment, Greenhouse culture, Light,
Poa pratensis, Setaria viridis, Temperature.
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Anopheles sergenti, Insect vectors, Malaria.
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DIETARY AMINO ACID REQUIREMENTS OF THE APHID, MYZUS
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B H Dadd D L Krieger
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Amino acids, Aphididae, Histidine, Insect nutrition,
Isoleucine, Larvae, Methionine, Myzus persicae.
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Water treatment.
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Tyrosine.
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Testes.
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Insect morphology, Logs.
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Insect behavior, Insect ecology, Insect morphology,
Insect respiration.
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DAE).
L D Fairbanks G E Burch
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Feeding, Food, Megaselia scalaris, Potassium,
Radioactive tracers, Radioactivity, Rubidium, Temperature.
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D J C Fletcher J M Brand
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Assay, Attractants, Chromatography, Crematogaster peringueyi,
Extracts, Formicidae, Hormones, Insect anatomy,
Insect behavior, Pheromones, Scent glands.
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Biochemistry, Chemosterilants, Dosage, Drug therapy,
Experimental insects, Heliothis virescens, Sex, Sterilization.
Abstract: Some of the chemicals were: aziridines, methane-
sulfonates, nitrogen mustards, phosphoramides, and urea
derivatives.

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Cicadellidae, Ueltocephalus sonor, Grain, Grasses, Insect biology, Insect physiology, Metamorphosis, Ovulation.
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Aedes aegypti, Chemicals, Insect morphology, Insect nutrition, Larvae, Melanoplus bivittatus, Nymphs, Plant composition. Abstract: Tomatine prolonged pupal period, reduced percentage reaching adult stage; digitonin reduced larval growth, and all larvae failed to pupate; saponin reduced percentage reaching adult stage.
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Alfalfa, Insect pests, Megachile rotundata, Parasitic insects, Sanitation control (insects).
Abstract: This paper is concerned with the control of the species of debris-feeders and parasites imported with the bee or associated with it in southern Alberta.
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Abstract: Insecticides used were: Furadan (2,3-dihydro-2,-2-dimethyl-7-benzofuranyl methylcarbamate), Gardona (2-chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate, and Matacil (4-(dimethyl-amino-*n*-tolyl methylcarbamate), gave control equivalent to carbaryl.
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Apis mellifera, Bombus, Insect behavior, Palynology, Pollen.
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was examined over a wide range of temperatures.
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Aerial spraying, Amblyomma americanum, Biochemistry,
Chemical control (insects), Experimental insects, Forests,
Insecticide application, Insecticides.
Abstract: The most effective insecticides were: Bay 39007
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3,4 xylyl methylcarbamate, Shell SD-8530 (3,4,5-trimethyl
phenyl methylcarbamate), Schering 34615 (m-cya-5-yl methyl-
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Ribonucleic acid, Steroids.

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Insect physiology, Ions, Larvae, Proteins, Temperature, Time.
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Insect hology, Insect morphology, Nerves,
Reproductive organs, Schistocerca gregaria.
- 16452-68
POPULATION INTER-RELATIONSHIPS. I. EVOLUTION IN MIXTURES
OF DROSOPHILA MUTANTS.
A P C Seaton J Antonovics
Heredit 22(1):19-33 REF
Feb 1967 443.B H42
Culture media, Drosophila melanogaster, Drosophila similans,
Drosophilidae, Insect evolution, Insect mutation,
Population statistics.
- 16453-68
PROTEIN SYNTHESIS IN SUBCELLULAR FRACTIONS OF THE BLOWFLY
DURING DIFFERENT DEVELOPMENTAL STAGES.
K E Sekeri C E Sekeris P Karlson
J Insect Physiol 14(3):425-431 REF
Mar 1968 421 J825
Biochemistry, Calliphora vicina, Insect physiology, Proteins,
Ribonucleic acid, Ribosomes.
- 16454-68
NUMBER OF INSTARS OF THE LARVA OF HERSE CONVOLVULI L.
D G Sevastopulo
Entomol Rec J Variation 80(5):147-148
May 1968 421 EN89
Amphipyra herhera, Amphipyra pyramidea, Breeding,
Herse convolvuli, Larvae, Metamorphosis.
- 16455-68
FLIGHT HEIGHT, DROPLET SIZE, AND MOISTURE INFLUENCE ON
GRASSHOPPER CONTROL ACHIEVED WITH MALATHION APPLIED AERIALY
AT ULV.
P E Skoog P T Cowan
J Econ Entomol 61(4):1000-1003
15 Aug 1968 421 JB22
Aerial spraying, Biochemistry, Chemical control (insects),
Grasshoppers, Humidity, Insect dissemination, Insect flight,
Insecticide application, Insecticides, Malathion.
- 16456-68
PHOTOTACTIC RESPONSE OF ADULTS OF CONFUSED FLOUR BEETLE AND
RED FLOUR BEETLE AND LARVAE OF BLACK CABPET BEETLE TO FLASH-
ES OF BLUE-WHITE LIGHT.
E L Soderstrom
J Econ Entomol 61(4):973-975
15 Aug 1968 421 J822
Attagenus megatoma, Insect physiology, Larvae, Light,
Photochemistry, Photosensitization, Tribolium castaneum,
Tribolium confusum.

10 16457-68

- 16457-68
IN VITRO CULTIVATION OF CHORISTONEURA FUMIFERANA (CLEMENS) (LEPIDOPTERA:TORTRICIDAE) TISSUES.
S S Sohi
Can J Zool 46(1):11-13 REF
Jan 1968 470 C16D
Choristoneura fumiferana, Insect cultures, Insect rearing, Tissues, Tortricidae.
- 16458-68
BIOLOGICAL NOTES ON, AND ERADICATION OF TRICHOGRAMMA SEMIFUMATUM FROM LABORATORY CULTURES OF EIGHT SPECIES OF NOCTUIDAE.
V M Stern H H Shorey
J Econ Entomol 61(4):89R-901
15 Aug 1968 421 J822
Culture media, Experimental insects, Insect biology, Insect eggs, Insect physiology, Larvae, Noctuidae, Oviposition, Parasitism, Trichogramma semifumatum.
Abstract: Species were: Heliothis zea, B. virescens, Trichoplusia, Autographa californica, Rachiplusia, Pseudoplusia includens, Prodenia ornithogalli, Spodoptera exigua.
- 16459-68
DEFENSE REACTIONS OF DROSOPHILA SPECIES (DIPTERA: DROSOPHILIDAE) TO THE PARASITE PSEUDEUCOILA ROCHEI (HYMENOPTERA: CYNIPIDAE).
F A Streams
Entomol Soc Amer Ann 61(1):158-164 REF
15 Jan 1968 420 EN82
Cynipidae, Drosophila, Insect eggs, Insect physiology, Larvae, Parasitic insects, Pseudeucoila bochei.
- 16460-68
SEGMENTATION AND ORGANOGENESIS IN LIMNORIA LIGNORUM (RATHKE) (ISOPODA).
J-o Stromberg
Arkiv Zool 20(2):91-139 REF
1968 410.9 SV22
Embryology, Gastrointestinal system, Insect morphology, Isopoda, Nervous system.
- 16461-68
METHODS OF KILLING PESTS SELECTED FROM THE GROUP CONSISTING OF MITES AND INSECTS WITH PHOSPHONOTHIOATES. PATENT 3,401,220.
K Szabo D J Broadbent
US Patent Office Offic Gaz 854(2):502-503
10 Sep 1968 156.65 OP2
Chemical control (insects), Insect behavior, Methodology, Mites, Patents, Pesticides, Phosphonothioic acid compounds.
- 16462-68
SOME PHYSIOLOGICAL EFFECTS OF SUBLETHAL DOSES OF DDT ON FLOUR BEETLES.
M Taher
Diss Abstr Sect B 58(12,PT.1):5067B
Jun 1968 Z5055.U49D53
Chlorinated hydrocarbons, Ddt, Dosage, Excreta, Fertility, Insect physiology, Insecticides, Lindane, Malathion, Mortality, Oviposition, Quinones, Reproduction, Sodium fluoride, Sterility, Tribolium confusum.
- 16463-68
ECOLOGY AND BEHAVIOR OF THE MIGRATORY LOCUST IN SOUTHWEST MADAGASCAR. (FR)
J-p Tetefort D Wintrebort
Soc Entomol France Ann 3(1):3-30 MAP REF
1967 420 F84
Acrididae, Insect behavior, Insect ecology, Insect outbreaks, Insect pests.
French and english abstract
Abstract
- 16464-68
PHOSPHOLIPID SYNTHESIS DURING FLIGHT MUSCLE DEVELOPMENT IN THE AMERICAN SILKMOTH, HYALOPHORA CECROPIA.
K K Thomas L I Gilbert
Compar Biochem Physiol 21(2):279-29D REF
May 1967 444.8 C73
Hyalophora cecropia, Insect flight, Insect metabolism, Insect morphology, Lipids, Muscles.
- 16465-68
SURVIVAL AND DEVELOPMENT OF SEVERAL GRASSHOPPER SPECIES ON EXTRACTS OF SELECTED PLANT SPECIES.
D R Toczek
Diss Abstr Sect B 58(12,PT.1):5255R-5256R
Jun 1968 Z5055.U49D53
Grasshoppers, Insect physiology, Insect rearing, Mortality, Plant extracts.
- 16466-68
SURVIVAL OF OVERWINTERING ALPALPA WEEVIL EGGS IN PENNSYLVANIA.
H G Townsend W G Vendol
J Econ Entomol 61(4):916-918
15 Aug 1968 421 J822
Alfalfa, Hibernation, Hypera postica, Insect eggs, Insect physiology, Population, Research, Temperature, Weather.
- 16467-68
SEX ATTRACTION IN THE MEDITERRANEAN FLOUR MOTH, ANAGASTA KUHNIELLA: LOCATION OF THE FEMALE BY THE MALE.
E M M Traynier
Can Entomol 100(1):5-10 REF
Jan 1968 421 C16
Anagasta kuehniella, Insect behavior, Photography, Sex attractants, Sex behavior.
- 16468-68
BEHAVIOUR GENETICS OF NEST CLEANING IN BONEYREES. V. EFFECT OF PREVIOUS EXPERIENCE AND COMPOSITION OF MIXED COLONIES ON RESPONSE TO DISEASE-KILLED BROOD.
R F Trump V C Thompson W C Rothenbuhler
J Apicult Res 6(3):127-131 REF
1967 424.8 J82
American foulbrood, Apis mellifera, Bacillus larvae, Hygiene, Insect behavior, Insect genetics, Social insects.
- 16469-6R
STRUCTURE AND PHYSIOLOGY OF A CHORDOTONAL ORGAN IN THE LOCUST LEG.
P N R Usherwood H I Runion J I Campbell
J Exp Biol 48(2):305-323 REF
Apr 1968 442.8 B77
Insect anatomy, Insect behavior, Insect physiology, Locusta migratoria, Mechanoreceptors, Romalea microptera, Schistocerca gregaria.
- 16470-68
DIETARY REQUIREMENTS OF THE BOLLWORM, HELIOTHIS ZEA (LEPIDOPTERA: NOCTUIDAE), FOR LIPIDS, CHOLINE, AND INOSITOL AND THE EFFECT OF FATS AND FATTY ACIDS ON THE COMPOSITION OF THE BODY FAT.
E S Vanderzant
Entomol Soc Amer Ann 61(1):120-125 REF
15 Jan 1968 42D EN82
Choline, Fats, Fatty acids, Heliothis zea, Inositol, Insect nutrition, Insect physiology, Linoleic acid, Linolenic acid, Lipids, Noctuidae.
- 16471-68
SOURCE OF A SUBSTANCE IN HELIOTHIS VIRESCENS (LEPIDOPTERA: NOCTUIDAE) THAT ELICITS A SEARCHING RESPONSE IN ITS HABITUAL PARASITE CARDIOCHILES NIGRICEPS. (HYMENOPTERA: BRACONIDAE).
S R Vinson
Entomol Soc Amer Ann 61(1):8-10
15 Jan 1968 420 EN82
Braconidae, Cardiochiles nigriceps, Heliothis virescens, Insect behavior, Insect physiology, Mandibular glands, Parasitic insects.
- 16472-68
EVALUATION OF INSECTICIDES FOR CONTROL OF PICKLEWORM ON SUMMER SQUASH.
R E Waites D H Rabecq
J Econ Entomol 61(4):1097-1099
15 Aug 1968 421 J822
Biochemistry, Carbaryl, Chemical control (insects), Diaphania nitidalis, Entomology, Insecticides, Research, Squash.
Abstract: Chemicals used were: lindane, endosulfan, and trichlorofon, Monsanto CP-47114, furadan, ortho.
- 16473-68
THE SEPARATION AND CHARACTERIZATION OF THE HAEMOLYMPH PROTEINS OF SEVERAL INSECTS.
C M Wang R L Patton
J Insect Physiol 14(8):1069-1075 REF
Aug 1968 421 JR25
Acrylamide, Blood cells, Electrophoresis, Gels, Histochemistry, Insects, Proteins.
- 16474-68
FIELD TRIALS TO CONTROL COLORADO BEETLE, LEPTINOTARSA DECEMLINEATA, WITH PERILLUS BIUCULATUS. (POL)
W Wegorek A Szmidt

- Poznan Inst Ochrony Roslin Biul 36:47-54
1967 464.9 P87
Biological control (insects), Coleoptera, Hemiptera,
Insect ecology, Leptinotarsa decemlineata,
Perillus bioculatus, Predaceous insects.
English and russian abstract
Abstract
- 16475-68
PLISTOPHORA SCOLYTI SP. N. (PROTOZOA, MICROSPORIDIA), A
NEW PARASITE OF SCOLYTUS SCOLYTUS F. (COL., SCOLYTIDAE).
J Weiser
Folia Parasitol 15:11-14 REF
1968 436.8 C33
Insect diseases, Nosema, Plistophora, Protozoa,
Scolytus scolytus.
Abstract: Last larvae and adults of Scolytus scolytus F.
are infected with Plistophora scolyti sp. nov. and No-
sema curvidentis Weiser. Both Microsporidia attack the
gut wall and oenocytes on its surface. A double infection
is present in most cases. Host mortality is low and only
colonies in old trunks, where crossings of old and new gal-
leries are common, are infected.
- 16476-68
TRIPLOSPORIUM TETRANYCHI SP. N. (PHYCOMYCETES, ENTOMOPH-
THORACEAE), A FUNGUS INFECTING THE RED MITE TETRANYCHUS
ALTHAEAEE HANST.
J Weiser
Folia Parasitol 15(DD):115-122
1968 436.8 C33
Entomophthoraceae, Insect diseases, Mites, Plant taxonomy,
Tetranychus althaeae, Triplosporium tetranychi.
Abstract
- 16477-68
EMBRYOLOGY OF THE HOUSE FLY, MUSCA DOMESTICA (DIPTERA:
MUSCIDAE), TO THE 8LASTODERM STAGE.
J A West G E Cantwell T J Shortino
Entomol Soc Amer Ann 61(1):13-17
15 Jan 1968 42D EN82
Embryology, Insect eggs, Musca domestica.
- 16478-68
THE ANT LARVAE OF THE SUBFAMILY FORMICINAE (HYMENOPTERA:
FORMICIDAE): SUPPLEMENT.
G C Wheeler J Wheeler
Entomol Soc Amer Ann 61(1):2D5-222 REF
15 Jan 1968 42D EN82
Formicidae, Insect taxonomy, Larvae.
- 16479-68
VIABILITY, DEVELOPMENT, AND RATE OF PASSAGE OF THE PATHOGEN-
IC BACTERIUM, BACILLUS LARVAE WHITE, IN THE HEMOLYMPH AND
ALIMENTARY CANAL OF THE ADULT HONEY BEE, APIS MELLIFERA L.
W T Wilson
Diss Abstr Sect B 58(12,PT.1):5D67B-5D68B
Jun 1968 25055.U49D53
American foulbrood, Apis mellifera, Bacillus larvae,
Bee diseases, Blood, Intestines.
- 1648D-68
INVESTIGATIONS OF NEW INSECTICIDES. (POL)
W Witkowski
Poznan Inst Ochrony Roslin Biul 36:125-126
1967 464.9 P87
Chemical control (insects), Insect control, Mites, Pesticides,
Toxicology.
English and russian abstract
- 16481-68
SOME RESPONSES OF FLYING AEDES AEGYPTI TO VISUAL
STIMULI.
F W Wood R H Wright
Can Entomol 1D(5):5D4-513
May 1968 421 C16
Aedes aegypti, Air flow, Color, Equipment, Humidity,
Insect behavior, Insect rearing, Kinetics, Light, Temperature,
Vision.
- 16482-68
RESPONSE AND RECOVERY ON X-IRRADIATED TRIBOLIUM CONFUSUM
LARVAE.
C Yang
Diss Abstr Sect 8 58(12,PT.1):48868
Jun 1968 25055.U49D53
Cycloheximide, Dosage, Insect metabolism, Larvae, Mortality,
Proteins, Temperature, Tribolium confusum, X-rays.
- 16483-68
EFFECT OF IRRIGATION AND SUBMERSION IN WATER ON PUPAL SUE-
VIVAL OF THE BOLLWORM.
J H Young R G Price
J Econ Entomol 61(4):959-961 REF
15 Aug 1968 421 J822
Cotton, Field crops, Heliothis zea, Immunity,
Insect physiology, Irrigation, Pupae, Research, Time, Water.
- 16484-68
ELECTRON MICROSCOPICAL STUDIES ON DITYLENCHUS DIPSACI
(KUNN). STOMATAL REGION.
P Yuen
Can J Zool 45(6,PT.1):1D19-1033 REF
Nov 1967 47D C16D
Ditylenchus dipsaci, Electron microscopes, Helminthiasis,
Morphology, Plant nematodes, Stomach.
- 16485-68
EFFECTS OF SOME PHYSICAL AND BIOLOGICAL FACTORS ON THE
REPRODUCTION, DEVELOPMENT, SURVIVAL, AND BEHAVIOR OF THE
CEREAL LEAF BEETLE, OULEMA MELANOPUS (LINNAEUS), UNDER
LABORATORY CONDITIONS.
Y M Yun
Diss Abstr Sect B 58(12,PT.1):5D68B
Jun 1968 25055.U49D53
Humidity, Insect behavior, Insect ecology, Insect flight,
Insect physiology, Light, Metamorphosis, Mortality,
Oulema melanopus, Ovulation, Reproduction, Temperature.
- 16486-68
EFFECT OF CORPORA ALLATA ON PROTEIN AND RNA SYNTHESIS IN
COLLETERIAL GLANDS OF BLATTTELLA GERMANICA.
M Zalokar
J Insect Physiol 14(8):1177-1184
Aug 1968 421 J825
Blattella germanica, Colleterial glands, Corpora allata,
Gonadotropins, Nucleosides, Phosphorylation, Proteins,
Radioactivity, Research, Ribonucleic acid, Uridine.
- 16487-68
TEMPERATURE COMPENSATION OF THE CIRCADIAN OSCILLATION IN
DROSOPHILA PSEUDOOSCURA AND ITS ENTRAINMENT BY
TEMPERATURE CYCLES.
W F Zimmerman C S Pittendrigh T Pavlidis
J Insect Physiol 14(5):669-684 REF
May 1968 421 J825
Diurnal rhythm, Drosophila pseudooscura, Insect behavior,
Insect temperature, Stridulation.
- 16488-68
OILS FOR SUMMER CONTROL OF PEAR PSYLLA AND THEIR EFFECTS ON
PEAR TREES.
R W Zwick F W Peifer
J Econ Entomol 61(4):1075-1D79 REF
15 Aug 1968 421 J822
Biochemistry, Chemical control (insects), Foliar application,
Oils, Pears, Psylla pyricola, Spraying, Trees.
Abstract: Oil were combined with azinphosmethyl, ethion,
and perthane (1,1-dichloro-2,2 bis(p-ethylphenyl) ethane.
- 16489-68
THE REPRODUCTIVE BIOLOGY OF HIPPELATES COLLUSOR (DIPTERA:
CHLOROPIDAE). II. GAMETOGENESIS.
T S Adams M S Mulla
Entomol Soc Amer Ann 6D(6):1177-1182
Nov 1967 420 EN82
Chloropidae, Gametogenesis, Hippelates, Insect hiology.
- 16490-68
SPERMATOZOAN NUCLEUS LENGTH IN THREE STRAINS OF
DROSOPHILA MELANOGASTER.
R A Beatty N S Sidhu
Heredity 22(1):65-82 REF
Feb 1967 443.8 842
Cell nucleus, Culture media, Drosophila melanogaster,
Environment, Genetics, Ronogenesis, Sampling (statistics),
Spermatozoa, Variance analysis.

Genetics

10 16491-68

16491-68

CYTOGENETIC OBSERVATIONS ON SPECIES A AND B OF THE ANOPHELES GAMBIAE COMPLEX.
M Coluzzi A Sabatini
Parassitologia 9(2):73-88 REF
Oct 1967 436.8 P212
Anopheles gambiae, Breeding, Chromosomes, Cytogenetics, Insect genetics, Polymorphism, Salivary glands (insects).
English and Italian abstract
Abstract

16492-68

INFLUENCE OF REPELLENCY ON THE EFFICACY OF BLATTICIDES. II. LABORATORY EXPERIMENTS WITH GERMAN COCKROACHES.
W Ebeling D A Reiersen R E Wagner
J Econ Entomol 60(5):1375-1390
Oct 1967 421 JB22
Blattella germanica, Insect repellents, Insecticides.

16493-68

RESISTANCE LEVELS IN DIAZINON-PRESSURED AND NONPRESSURED POLYRESISTANT HOUSE FLIES.
A J Forgas E J Hansens
J Econ Entomol 60(5):1241-1247
Oct 1967 421 JB22
Diazinon, Insecticide resistant insects, Musca domestica.

16494-68

TEMPERATURE EFFECT ON REPRODUCTION AND LONGEVITY OF LABORATORY-REARED ADULT PINK BOLLWORM (LEPIDOPTERA: GELECHIIDAE).
H M Graham P A Glick M T Ouye
Entomol Soc Amer Ann 60(6):1211-1213
Nov 1967 42D EN82
Insect rearing, Pectinophora, Reproduction.

16495-68

PARATHION RESISTANCE IN HOUSE FLY POPULATIONS IN THE SAVANNAH, GEORGIA, AREA.
W Mathis A D Flynn H F Schoof
J Econ Entomol 60(5):14D7-14D9
Oct 1967 421 JB22
Diazinon, Georgia, Insecticide resistant insects, Musca domestica, Parathion.

16496-68

INHERITED STABILITY IN PROGENY OF IRRADIATED MALE CABBAGE LOOPERS.
D T North G Holt
J Econ Entomol 61(4):928-931 REF
15 Aug 1968 421 JB22
Breeding, Chromosomes, Gamma rays, Heredity, Insect control, Insect eggs, Insect genetics, Insect physiology, Lepidoptera, Sex, Sterility, Trichoplusia ni.

16497-68

MUTATION AND CHROMOSOMAL PUPPING IN THE VICINITY OF THE WHITE LOCUS OF DROSOPHILA MELANOGASTER.
R E Rayle
Diss Abstr Sect B 28(12,PT.1):4880B
Jun 1968 Z5055.049D53
Chromosomes, Drosophila melanogaster, Insect genetics, Insect mutation.

16498-68

PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER. IV. GENE-ENVIRONMENT INTERACTIONS OF TU-BW WITH DIFFERENT THIRD CHROMOSOME BACKGROUNDS.
J H Sang B Burnet
Genetics 56(4):743-754
Aug 1967 442.8 G28
Breeding, Chromosomes, Deoxyribonucleic acid, Drosophila melanogaster, Insect genetics, Insect physiology, Neoplasms, Population, Temperature.

16499-68

A FORMULA FOR DETERMINING DEGREE OF DOMINANCE IN CASES OF MONOFACTOIAL INHIBITANCE OF RESISTANCE TO CHEMICALS.
B F Stone
World Health Organ Bull 38(2):325-326
1968 449.9 W892B
Arthropoda, Chemicals, Dominance, Genes, Inheritance, Insect genetics, Insecticide resistant insects.

Medical Entomology

165DD-68

TIME OF ARRIVAL OF GRAVID CULEX PIPIENS FATIGANS AT AN OVIPOSITION SITE, THE OVIPOSITION CYCLE AND THE RELATIONSHIP BETWEEN TIME OF FEEDING AND TIME OF OVIPOSITION.

B De Meillon A Sebastian Z H Khan
World Health Organ Bull 36(1):39-46
1967 449.9 W892B
Culex pipiens quinquefasciatus, Feeding, Insect behavior, Insect control, Insect traps, Light, Ovulation, Pregnancy, Reproduction, Time.
French summary

16501-68

CANE-SUGAR FEEDING IN CULEX PIPIENS FATIGANS.

B De Meillon A Sebastian Z H Khan
World Health Organ Bull 36(1):53-65
1967 449.9 W892B
Attractants, Culex pipiens quinquefasciatus, Feeding, Insect behavior, Insect biology, Insect control, Insect dissemination, Insect traps, Insect vectors, Ovulation, Sugar cane.
French summary

16502-68

THE SEROLOGICAL DIFFERENTIATION OF VIBUSES IN THE TICK-BOONE ENCEPHALITIS SUBGROUP BY THE GEL-DIFFUSION METHOD.

N E Gorev A A Smorodincev
World Health Organ Bull 3B(3):389-399
1968 449.9 W892B
Diffusion, Encephalitis, Gels, Human diseases, Insect vectors, Ixodidae, Serological tests, Viruses.
French summary

16503-68

ARBOVIRUS STUDIES IN BUSH BUSH FLEET, TRINIDAD, W. I. SEPTEMBER 1959-DECEMBER 1964. VI. RODENT-ASSOCIATED VIRUSES (VEE AND AGENTS OF GROUP C AND GUAMA): ISOLATIONS AND FURTHER STUDIES.

A H Jonkers L Spence W G Downs T B G Aitken C B Worth
Amer J Trop Med Hyg 17(2):285-298 REF
Mar 1968 44B.8 AM326
Arboviruses, Culicidae, Insect vectors, Rodents, Serological tests.

16504-68

MEASURING MOSQUITO REPELLENCY.

F E Kellogg D J Burton R H Wright
Can Entomol 100(7):763-768
Jul 1968 421 C16
Culicidae, Equipment, Insect repellents.
Abstract

16505-68

FIELD STUDY OF THE SAFETY OF ABATE FOR TREATING POTABLE WATER AND OBSERVATIONS ON THE EFFECTIVENESS OF A CONTROL PROGRAMME INVOLVING BOTH ABATE AND MALATHION.

E B Laws V A Sedlak J W Miles C R Joseph J R Lacomba
World Health Organ Bull 38(3):439-445
1968 449.9 W892B
Abate, Aedes aegypti, Human diseases, Insect control, Insect vectors, Malathion, Research, Toxicology, Water treatment.
French summary

16506-68

RECENT ADVANCES IN TECHNIQUES FOR TESTING FLY CONTROL WITH SPECIAL REFERENCE TO NORTHERN NIGERIA.

K J R MacLennan
World Health Organ Bull 37(4):615-628 BEP
1967 449.9 W892B
Biology, Ecology, Glossina, Insect control, Insect vectors, Insecticides, Trypanosomiasis.
French summary

165D7-68

UKAUNA VIRUS PROLIFERATION IN MOSQUITOS.

O Ogunbi
Can J Microbiol 14(2):125-129 REF

Feh 1968 448.8 C162
Aedes aegypti, *Aedes canadensis*, *Aedes triseriatus*,
 Arboviruses, Injections, Insect vectors, Mice, Reproduction,
 Thorax, Ukauwa virus.
 Abstract: Immediately after inoculation, an eclipse phase
 with lack of detection of infectivity was observed 6 hours
 later, and was followed by initial recovery of virus (1.0
 log mouse LD50) at 12 hours, thereafter steady virus
 increments in salivary glands, gut and legs, reaching the
 maximum titers of 5.4 to 6.3 log mouse in 4 days.

1650B-6B
 GROWTH OF ARBOVIRUSES IN PRIMARY TISSUE CULTURE OF AEDES
 AEGYPTI EMBRYOS.
 J Peleg
 Amer J Trop Med Hyg 17(2):219-223 REF
 Mar 1968 448.8 AM326
Aedes aegypti, Agglutination test, Arboviruses,
 Eastern equine encephalomyelitis virus, Semliki forest virus,
 Tissue culture, Volumetric analysis, West Nile virus.

16509-68
 THE LIFE CYCLE OF TRICHINELLA SPIRALIS. I. INTESTINAL
 PHASE OF DEVELOPMENT.
 C S Shanta E Meerovitch
 Can J Zool 45(6, Pt. 2):1255-1260 REF
 Nov 1967 470 C16D
 Animal diseases, Intestines, Metamorphosis, Molting (insects),
 Morphology, Trichinella spiralis.
 Abstract: Amphids observed after post infection; they in-
 creased in size until 6th hour then regressed and disap-
 peared. The function of these amphids is believed to be
 related to osmoregulation.

20 CROP PROTECTION

16510-68
 A COMPARISON OF ANNUAL CROPS FOR SEED AND RESIDUE IN THE
 SEMI-ARID REGION OF WESTERN CANADA.
 C H Anderson
 Can J Plant Sci 48(3):287-291
 May 1968 450 C16
 Grain, Oilseeds, Seed analysis, Soil-binding plants, Stuhle.
 Abstract: Eight cereal and oilseed crops were tested to
 compare their yields of seed and stuhle residue for
 purposes of soil erosion control.

16511-6B
 UPTAKE AND METABOLISM OF INDOLEACETIC ACID, NAPHALENE-
 ACETIC ACID, AND 2,4-DICHLOROPHENOXYACETIC ACID BY PEA ROOT
 SEGMENTS IN RELATION TO GROWTH INHIBITION DURING AND AFTER
 AUXIN APPLICATION.
 W A Andreae
 Can J Bot 45(5):737-753 REF
 May 1967 470 C16C
 D, 2,4-, Indoleacetic acid, Metabolism,
 Naphthaleneacetic acid, Peas, Plant growth inhibitors,
 Plant hormones.
 Abstract: Growth inhibition by applied auxins is indepen-
 dent of the rate of auxin uptake, accumulation of auxin or
 auxin metabolites in the tissue, or the subsequent loss of
 accumulated auxin from the tissues.

16512-6B
 CULTURAL STUDIES OF SEXUAL REPRODUCTION OF CERATOCYSTIS
 FAGACEARUM.
 W R Bell C L Fergus
 Can J Bot 45(8):1235-1242 REF
 Aug 1967 470 C16C
 Agar, Biochemistry, Ceratocystis fagacearum, Conidia, Fungi,
 Hermaphroditism, Hydrogen-ion concentration,
 Plant reproduction.
 Abstract: The optimum KH₂PO₄ concentration for perithe-
 cium production by *C. fagacearum* in a semi-synthetic agar
 medium was 7.4 x 10⁻⁴ M. A great reduction in the number
 of perithecia occurred at 0.1 M and none were formed at
 0.2 M concentration.

16513-68
 STUDIES ON LETTUCE SEED GERMINATION. I. COUMARIN INDUCED
 DORMANCY.
 H M M Berrie W Parker B A Knights M R Hendrie
 Phytochemistry 7(4):567-573
 Apr 1968 450 P5622
 Biochemistry, Coumarin, Giberellins, Lettuce,
 Photosensitization, Seed dormancy, Seed germination.
 Abstract: On the basis of the findings it is proposed that
 the coumarins and isocoumarins which induce light sensitive
 dormancy in plants may act as anti-giberellins.

16514-68
 A THESIS OF MME G. RICOU, ON LASTING PRAIRIE PASTURAGE,
 A BIOECOLOGICAL STUDY OF NATURAL ENVIRONMENT. (FR)
 D L Bonnemaïson
 Phytoma 19(188):39
 May 1967 464.8 P563
 Ecology, Grasses, Pastures, Prairies, Research, Theses.

16515-68
 INJURY TO SUGAR BEET LEAVES THROUGH GROWTH INHIBITING HERB-
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 Herbicides, Leaves, Plant injuries, Plant physiology,
 Sugar beets.

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 Phytoma 19(187):25-30
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 Air pollution, *Aragallis arvensis*, *Plantago lanceolata*,
Stellaria media, Tissues, Vegetation.

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Barley, Cells, Chromosomes, Cytology, Gamma rays, Plant morphology, Plant translocation, Research, Sampling (statistics), Sterility.
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Light, Plant ecology, Plant growth inhibitors, Pseudotsuga menziesii.
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H Imaseki K Akntsu I Uritani
Plant Cell Physiol 8(4):753-758 REF
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Adsorption, Black rot (sweetpotatoes), Ceratocystis fimbriata, Fungi, Ions, Parasitism, Plant diseases, Plant metabolism, Roots, Tissues.
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M M Jaweed E G Scott
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Boron, Indoleacetic acid, Plant growth inhibitors, Plant metabolism, Plant regulators, Ribonucleic acid, Sunflowers.
Abstract: A comparison of the levels of RNA and IAA in normal and boron-depleted tissue indicated that boron deficiency decreases the RNA content and elevates IAA levels. It is proposed that boron checks excessive levels of IAA in plants and, thus, is responsible for keeping it in physiologically growth-promoting concentrations.
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Asparagine, Chromatography, Fungi, Nitrogen, Phytophthora citricola, Phytophthora heveae, Plant growth inhibitors, Reproduction.
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J K Leasure O R Mussell
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Halogen compounds, Patents, Plant growth inhibitors, Silanes.
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J J Lipa
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Agricultural research, Biological control (pests), Insect control, Plant protection.
English and russian abstract
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R G Lockard E J A Asomaning
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May 1967 470 C16C
Cacao, Hydroponics, Plant breeding, Plant nutrition, Plant physiology, Potassium.
Abstract: The varieties tested were Amazon selections Nanay and Parinari, West African Amelonado and their hybrids, NYA, PAA, and NYPA. Nutrient levels in the leaves did not vary greatly between varieties, and apparently were not correlated with plant growth.
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GROWTH SUBSTANCES ISOLATED FROM WOODY CUTTINGS OF ALNUS GLUTINOSA MEDIC. AND FRAXINUS EXCELSIOR L.
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Alnus glutinosa, Chromatography, Fraxinus excelsior, Plant cuttings, Plant physiology, Plant regulators, Spectroscopy.
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F Mergen B A Thielges
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A Schmidle
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Apples, Collar rot (apples), Phytophthora cactorum, Plant breeding, Plant disease resistance, Plant grafting.
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C E Townsend A O Ootzenko K R Storer F E Edlin
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Crop losses, Crop yields, Plant growth inhibitors, Zigzag clover.
Abstract: Management practices were to harvest the ten types of zigzag clover prior to flowering, at early bloom, and at full bloom.
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R E Webster E E Butler
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Ceratocystis fimbriata, Plant breeding, Plant geography, Plant morphology, Plant taxonomy.
Isolated from different plants and geographic locations
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W Wegorek
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Insecticides, Plant disease control, Plant pest control, Plant protection, Productivity.
English and russian abstract
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Barley, Immunodiagnosis, Insect vectors, Macrosiphum avenae, Rhopalosiphum padi, Serological tests, Virus diseases (plants), Yellow dwarf (barley).
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V P Agnihotri O Vaartaja
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Amino acids, Chromatography, Exudates, Fungus diseases (plants), Growth factors, Pinus resinosa, Pythium ultimum, Root rot (pinus resinosa), Roots, Seedlings, Sugars.
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S Aist R D Riggs
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Amino acids, Heterodera glycines, Larvae, Nematodes, Plant nematode resistance.
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Baits, Beets, Carrots, Saprophytes, Sclerotium rolfsii, Soil microorganisms, Sorghum.
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Beans, Fungus diseases (plants), Fusarium solani phaseoli, Plant disease resistance, Root rot (beans).
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Apples, Evolution, Fruit, Leaves, Pears, Tree diseases, Trees.
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K C Basu-Chaudhary
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P K Basu
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Bacterial diseases (plants), Pigments (plant), Xanthomonas phaseoli.
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Carbon isotopes, Glucose, Metabolism, Mosaic (tobacco), Tobacco, Virus diseases (plants).
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Apples, Fungus diseases (plants), Leucine, Methionine, Mutation, Penicillium expansum.
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E R Bergquist J W Lorbeer
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Cell nucleus, Deoxyribonucleic acid, Fungus diseases (plants), Nucleoproteins, Parasitic plants, Plant physiology, Puccinia graminis tritici, Stem rust (wheat), Wheat.
Abstract: Profound changes in nuclear metabolism are induced by infection with the rust fungus.
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Abstract
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S W Braverman
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Phomopsis citri, Stem end rot (citrus).
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Microorganisms, Plant disease resistance, Saprophytes, Straw.
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Anoxia, Cold, Fungus diseases (plants), Gamma rays, Heat,
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Pinus strobus, Plant physiology, *Pythium vexans*.
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Humidity, Light, Plants, Temperature.
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Taxonomy.
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CEBATOCYSTIS FAGACEARUM DISTRIBUTION WITHIN RUB AND RED OAK
SEEDLINGS. (ABSTRACT).
G F Gregory
Phytopathology 58(4):399
Apr 1968 464.8 P56
Ceratomyces fagacearum, Fungus diseases (plants),
Microorganisms, Quercus, Quercus macrocarpa, Wilt (quercus).
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INDUCED SPORULATION OF BOTRYODIPLODIA THEOBROMAE PAT.
ISOLATED FROM ARAUCARIA CUNNINGHAMII AIT. IN MALAYSIA.
D A Griffiths
Mycopathol Mycol Appl 33(3-4):273-279 BEP
13 Dec 1967 450 H994
Araucaria cunninghamii, Botrydiplodia theobromae,
Culture media, Fungus diseases (plants), Reproduction.
A wound parasite. Synonymy with Diplodia natalensis
questioned.

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ISOLATION AND CHARACTERIZATION OF BARLEY STRIPE MOSAIC VIRUS PROTEIN.
D J Gnanji R I Hamilton
Virology 35(1):87-93 REP
May 1968 464.8 P56
Antigens, Calcium chloride, Nucleic acids, Polymerization, Proteins, Stripe mosaic (barley), Virus diseases (plants).
- 16589-68
SYSTEMIC OXATHIIN FUNGICIDE FOR CONTROL OF LOOSE SMUT (USTILAGO TRITICI) OF WINTER WHEAT. (ABSTRACT).
E D Hansing
Phytopathology 57(B):814
Aug 1967 464.8 P56
Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut (wheat), Ustilago tritici, wheat.
- 16590-68
INDUCTION OF LETTUCE ROOT ROT UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. (ABSTRACT).
J P Hartnett J W Lorbeer
Phytopathology 58(4):399
Apr 1968 464.8 P56
Culture media, Fungus diseases (plants), Lettuce, Plant disease resistance, Root rot (lettuce).
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PROCESS FOR OXIDIZING SOLUBLE ALKYLENE BISDITHIOCARRAMATES TO PRODUCE AN OXYGEN CONTAINING PRODUCT, AND THE PRODUCT OF SAID PROCESS. PATENT 3,401,182.
A M Harvey L A Brooks
US Patent Office Offic Gaz 854(2):496-497
10 Sep 1968 156.65 OP2
Chemical control (plant diseases), Crops, Dithiocarbamates, Fungicides, Fungus diseases (plants), Infrared spectra, Methodology, Patents, Potatoes.
- 16592-68
APPLICATION OF COTYLEDONARY SYMPTOMS IN SCREENING FOR RESISTANCE TO TOMATO BACTERIAL CANKER AND IN BOST RANGE STUDIES.
A A Hassan D L Strider T R Konsler
Phytopathology 58(2):233-239
Feb 1968 464.8 P56
Bacterial diseases (plants), Corynebacterium michiganense, Culture media, Plant disease resistance, Tomatoes.
- 16593-68
FACTORS AFFECTING THE PATHOGENICITY OF SELECTED FUNGI ISOLATED FROM PUTTING GREEN TURF.
M J Healy
Diss Abstr Sect R 2B(12,PT.2):4834B-4835R
Jun 1968 Z5055.U49D53
Agrostis palustris, Fungus diseases (plants), Golf courses, Poa annua, Turf.
- 16594-68
THREE-YEAR EFFECTS OF SYSTEMIC FUNGICIDES APPLIED FOR THE CONTROL OF CYTOSPORA IN ITALIAN PRUNE TREE.
A W Helton W J Kochan
Can J Bot 45(11):2017-2024
Nov 1967 470 C16C
Cytospora, Fungicides, Fungus diseases (plants), Plant protection, Prunus domestica, Spraying.
Abstract: CTS (cycloheximide thiosemicarbazone) superior to Phytoactin and 8-guinololin benzoate; CTS nearly halted canker expansion and increased yield.
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STEM RESISTANCE TO BLACK SHANK IN BURLEY TOBACCO DERIVED FROM NICOTIANA LONGIFLORA. (ABSTRACT).
J W Hendrix
Phytopathology 57(8):814
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Black shank (tobacco), Fungus diseases (plants), Nicotiana longiflora, Phytophthora parasitica nicotianae, Plant disease resistance, Tobacco.
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TRANSMISSION BY DODDER OF A YELLOWS-TYPE VIRUS FROM DECLINING WHITE ASH. (ABSTRACT).
C R Hibben
Phytopathology 58(4):399
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Cuscuta sabinclusa, Fraxinus americana, Vinca rosea, Virus diseases (plants).
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THE EFFECT OF SUBSTITUTED DECENYL SUCCINIC ACID (DSA), AMIDES, ESTERS, AND 1,5-DIFLUORO-2,4-DINITROBENZENE (DFDNB) ON PREVENTING BLOSSOM FREEZING INJURY. (ABSTRACT).
M T Hilborn
Phytopathology 58(4):400
Apr 1968 464.8 P56
Amides, Apples, Blueberries, Difluoro-2,4-dinitrobenzene, 1,5-, Esters, Flowers, Frost control, Plant injuries, Succinates, Succinic acid compounds.
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A STUDY OF TURES PRODUCED IN PLANTS INFECTED WITH A STRAIN OF TURNIP YELLOW MOSAIC VIRUS.
J H Hitchborn G J Hills
Virology 35(1):50-70 REP
May 1968 464.8 P56
Rentonite, Centrifugation, Electron microscopy, Magnesium, Plant morphology, Virus diseases (plants), Yellow mosaic (turnips).
- 16599-68
ANATOMY OF BEADS ON FLAGELLA OF ZOOSPORES OF PHYTOPHTHORA MEGASPERMA VAR. SOJAE.
H H Ho K Zachariah C J Hickman
Can J Bot 45(9):1765-1766 REP
Sep 1967 470 C16C
Flagella, Histology, Phytophthora megasperma, Reproduction.
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ETIOLOGY OF STRIPE SMUT, USTILAGO STRIFORMIS (WEST.) NIESSL, ON MERION BLUEGRASS, POA PRATENSIS L.
C F Hodges
Diss Abstr Sect B 28(12,PT.1):4835B
Jun 1968 Z5055.U49D53
Fungus diseases (plants), Poa pratensis, Stripe smut (poa pratensis), Ustilago striiformis.
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LEVELS OF SHIKIMATE AND FOLATE IN PRIMARY LEAVES OF WHEAT AND IN UREDOSPORES OF LEAF RUST.
D W Holloway A Fuchs R Rohringer
Can J Bot 45(9):1771-1773 REP
Sep 1967 470 C16C
Chemical control (plant diseases), Folic acid, Leaf rust (wheat), Reproduction, Shikimic acid, Wheat.
- 16602-68
OVERWINTERING OF COLLETOTRICHUM FRAGARIAE IN STRAWBERRY CROWNS.
N L Horn R R Carver
Phytopathology 58(4):540-541
Apr 1968 464.8 P56
Colletotrichum fragariae, Crown rot (strawberries), Fungus diseases (plants), Hibernation, Strawberries.
- 16603-68
SUSCEPTIBILITY AND HYPERSENSITIVITY TO TOBACCO MOSAIC VIRUS IN WILD SPECIES OF POTATOES.
J Horvath
Acta Phytopathol 3(1):35-43
1968 SB731.A3
Hypersensitivity, Mosaic (tobacco), Plant disease resistance, Potatoes, Virus diseases (plants).
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EFFECT OF TEMPERATURE ON THE DEVELOPMENT OF MELOIDOGYNE INCOGNITA IN SWEETPOTATO. (ABSTRACT).
P Jatala L S Morrison
Phytopathology 57(8):816
Aug 1967 464.8 P56
Meloidogyne incognita, Plant nematodes, Sweetpotatoes, Temperature.
- 16605-68
FACTORS AFFECTING RESPIRATION IN BARLEY YELLOW DWARF VIRUS-INFECTED BARLEY.
S G Jensen
Phytopathology 58(4):438-443
Apr 1968 464.8 P56
Barley, Plant respiration, Virus diseases (plants), Yellow dwarf (barley).
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ANTAGONISM OF BACTERIA FROM ELB TO CERATOCYSTIS OLMII IN VITRO. (ABSTRACT).
T R Jewell R J Campana
Phytopathology 58(4):400
Apr 1968 464.8 P56

- Ceratocystis ulmi, Culture media, Fungus diseases (plants), Microbiology, Microorganisms, Plant disease resistance, Ulmus.
- 196B SB731.A3
Corn, Cytology, Electron microscopes, Research, Rough dwarf (corn), Virus diseases (plants).
- 16607-68
EFFECT OF MAGNESIUM TRISILICATE ON THE INFECTIVITY OF TOBACCO MOSAIC VIRUS.
L Joshi H H Thornberry
Virology 35(1):169-171
May 1968 448.8 V81
Chemicals, Injections, Kidney beans, Leaves, Magnesium trisilicate, Marmor tabaci, Mosaic (tobacco), Plant disease control, Plant extracts, Plant residues, Virus diseases (plants).
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STUDIES ON THE INTERACTION OF P-MERCURIBENZOATE WITH TURNIP YELLOW MOSAIC VIRUS. V. INDUCED RIBONUCLEASE SENSITIVITY AND DEGRADATION OF THE VIRION.
J M Kaper F G Jenifer
Virology 35(1):71-B1 REF
May 1968 448.8 V81
Bentonite, Buffer substances, Chloroform, Hydrolysis, Research, Virus diseases (plants), Yellow mosaic (turnips).
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REPRODUCTIVE POTENTIALS OF RACES 15B AND 56 OF WHEAT STEM RUST.
K Katsuya G J Green
Can J Bot 45(7):1077-1091
Jul 1967 470 C16C
Fungus diseases (plants), Puccinia graminis, Reproduction, Stem rust (wheat), Urediospores.
Abstract: Experimentation showed that the urediospores of race 56 were more infective than those of 15B-1 and that the incubation period of race 56 was shorter than that of race 15B-1. Infection density markedly affected competitive abilities. Race 56 tended to predominate in light infections but race 15B-1 tended to predominate in heavy infections.
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CYTOPATHOLOGY OF MIXED INFECTIONS WITH POTATO VIRUSES X AND Y IN NICOTIANA TABACUM LEAVES.
H E Kauffman
Diss Abstr Sect B 28(12,PT.1):4835B
Jun 1968 Z5055.U49D53
Acridine orange, Fluorescence microscopy, Plant cytology, Tobacco, Virus diseases (plants), Virus Y (tobacco), Virus X (tobacco).
- 16611-68
NATURAL OCCURRENCE OF TOBACCO RINGSPOT VIRUS PELARGONIUM IN ONTARIO.
W G Kemp
Can J Plant Sci 47(3):295-300 REF
May 1967 450 C16
Host indexing (plants), Pelargonium hortorum, Ring spot (Pelargonium), Serological tests, Virus diseases (plants).
Abstract: This report is believed to constitute the first record of natural infection of Pelargonium by this virus. Simultaneous-infection and serological tests show that ringspot virus associated with a disease P. hortorum is related to tobacco ringspot virus
- 16612-68
THE RELATIONSHIP OF PHYTOPHTHORA FRAGARIAE HICKMAN TO THE FUNGAL FLORA IN THE RHIZOSPHERE OF THE STRAWBERRY PLANT.
M N Khare
Diss Abstr Sect B 28(12,PT.1):4836B
Jun 1968 Z5055.U49D53
Antibiotics, Fungus diseases (plants), Phytophthora fragariae, Red stele (strawberries), Rhizosphere, Soil fungi, Strawberries.
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THE EFFECT OF LEAF WATER BALANCE ON THE SUSCEPTIBILITY OF FRENCH BEAN TO TOBACCO NECROSIS VIRUS.
W C Kimmins E E Litz
Can J Bot 45(11):2115-2118
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Beans, Leaves, Necrosis, Osmotic pressure, Plant disease resistance, Plant water relations, Tobacco, Virus diseases (plants).
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ELECTRON-MICROSCOPIC STUDIES ON THE CYTOPATHOLOGY OF MAIZE PLANTS INFECTED WITH THE MAIZE ROUGH DWARF VIRUS (MRDV).
N Kislev I Harpaz M Klein
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J Kochman A Sikora
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Acyrtosiphon caraganae, Caragana arborescens, Virus diseases (plants).
English and German summaries.
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EFFECTS OF NITROGEN SOURCES ON GROWTH OF PHYTHIUM APHANIDERMATUM AND PHYTHIUM ULTIMUM.
J M Kraft D C Erwin
Phytopathology 57(4):374-376
Apr 1967 464.8 P56
Fungi, Growth factors, Nitrogen.
- 16617-68
ANALYSIS OF ANNUAL OUTBREAKS OF PARASITIC FUNGI. II. QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF ATTACK CURVES. (GE)
J Kranz
Phytopathol Z 61(2):171-190 REF
Feb 1968 464.8 P562
Frequency distribution, Fungus diseases (plants), Statistical analysis.
English and German summaries.
Abstract
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HISTOLOGY OF CANKER RUSTS IN PINES.
R G Krebill
Phytopathology 58(2):155-164 REF
Feb 1968 464.8 P56
Cells, Cronartium, Cronartium comandrae, Fungus diseases (plants), Histology, Pinus, Uredinales.
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THE ROLE OF ALKALOIDS IN THE RESISTANCE OF SOME LUPIN VARIETIES TO THE PEA APHID /ACYRTOSIPHON PISUM HARRIS/. (POL)
J Krzymanska
Poznan Inst Ochrony Boslin Biul 36:237-247
1967 464.9 P87
Acyrtosiphon pisum, Alkaloids, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Lupine.
English and Russian abstract
Abstract
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PERMEABILITY CHANGES IN PHASEOLUS AUREUS ASSOCIATED WITH INFECTION BY RHIZOCTONIA SOLANI.
M T Lai A R Weinhold J G Hancock
Phytopathology 58(2):240-245 REF
Feb 1968 464.8 P56
Cells, Enzymes, Fungus diseases (plants), Mung beans, Permeability, Rhizoctonia solani.
- 16621-68
DISEASES OF PITTED-FRUIT TREES, IN 1966. (FR)
P Latard
Phytoma 19(187):19-24
Apr 1967 464.8 P563
Cherries, Mortality, Peaches, Plums, Research, Tree diseases, Trees.
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A COMPARISON OF SOIL COLUMN AND PETRI DISH TECHNIQUES FOR THE EVALUATION OF SOIL FUNGICIDANTS.
A J Latham M R Linn
Phytopathology 58(4):460-463 REF
Apr 1968 464.8 P56
Chemical control (plant diseases), Fungi, Fungicides.
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A GENETIC STUDY OF LEAF RUST RESISTANCE IN WHEAT.
C N Law R Johnson
Can J Genet Cytol 9(4):805-822 REF
Dec 1967 443.8 C16
Chromosomes, Immunization, Leaf rust (grain), Mutation, Plant breeding, Plant disease control, Plant disease resistance, Plant genetics, Triticum aestivum, Wheat.

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R E C Layne
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Bacterial diseases (plants), Biological assay, Corynebacterium michiganense, Immunization, Tomatoes.
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C Lehen G C Daft
Phytopathology 58 (2):264-265
Feb 1968 464.8 P56
Anthracnose (cucumbers), Cucumbers, Fungus diseases (plants), Glomerella cingulata, Leaves, Seedlings.
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DETERMINATION OF VOLATILE ACID PRODUCTION OF CLOSTRIDIUM BY GAS CHROMATOGRAPHY.
V J Lewis C W Moss W L Jones
Can J Microbiol 13 (8):1033-1040
Aug 1967 448.8 P162
Acetic acid, Bacterial vaccines, Butyric acid, Chromatography, Clostridium, Fatty acids, Metabolites.
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EFFECTS OF CYTOKININS ON THE ABSORPTION OF VICTORIN.
H H Luke T E Freeman
Phytopathology 58 (2):258-259 REF
Feb 1968 464.8 P56
Cells, Cytokinins, Fungus diseases (plants), Helminthosporium victoriae, Metabolism, Oats, Victorin.
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THE INFLUENCE OF FUSARIUM ROOT ROT AND HARVESTING ON THE CARBOHYDRATE LEVELS OF ALFALFA ROOTS GROWN IN A GNOTOBIOTIC ENVIRONMENT. (ABSTRACT).
F L Lukezic R G Levine R B Carroll
Phytopathology 58 (4):401
Apr 1968 464.8 P56
Alfalfa, Carbohydrates, Fungus diseases (plants), Fusarium tricinctum, Harvesting, Root rot (alfalfa).
- 16629-68
INDOLEACETIC ACID OXIDASE ACTIVITY IN BANANA ROOTS.
M E Mace
Can J Bot 45 (6):945-948 REF
Jun 1967 470 C16C
Bananas, Enzymes, Fungus diseases (plants), Fusarium oxysporum, Indoleacetic acid, Oxidases, Roots.
- 16630-68
INTEGRATED METHOD OF CONTROL OF PLANT DISEASES CAUSED BY FUNGI. (POL)
Z Maciejowska
Poznan Inst Ochrony Roslin Biul 36:249-256 REF
1967 464.9 P87
Biological control (pests), Cultural control (plant diseases), Fungus diseases (plants), Plant disease control.
English and russian abstract
Abstract
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THE EFFECTS OF MAIZE DWARF MOSAIC VIRUS ON MACRO- AND MICROELEMENT ACCUMULATION IN CORN TISSUE OF RESISTANT AND SUSCEPTIBLE HYBRIDS. (ABSTRACT).
D R MacKenzie H Cole
Phytopathology 58 (4):401
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Breeding, Dwarf disease (corn), Mosaic (corn), Plant disease resistance, Virus diseases (plants).
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FACTORS AFFECTING THE GERMINATION OF BASIDIOSPORES OF THE HEART ROT FUNGUS, POMEA IGNARIUS IN THE INFECTION OF TREMBLING ASPEN.
P D Manion
Diss Abstr Sect B 28 (12,PT.1):4836B-4837B
Jun 1968 Z5055.U49D53
Fungus diseases (plants), Heart rot (Populus), Populus tremuloides, Spore germination.
- 16633-68
ELECTRON MICROSCOPY OF UREDOSPORES OF MELAMPORA LINI AND OF RUST INFECTED FLAX.
M S Manocha M Shaw
Can J Bot 45 (9):1575-1582 REF
Sep 1967 470 C16C
Electron microscopy, Fungi, Melampora lini, Plant diseases, Reproduction, Rust (flax), Seed germination.
Abstract Formation and development of uredospores, nucleoli not observed in nuclei of mature uredospores or germs.
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PHOTOSYNTHETIC ACTIVITIES OF COTTON PLANTS INFECTED WITH VERTICILLIUM ALBO-ATRUM.
D E Mathre
Phytopathology 58 (2):137-141 REF
Feb 1968 464.8 P56
Carbon dioxide, Carbon isotopes, Cotton, Fungus diseases (plants), Oxygen, Photosynthesis, Verticillium albo-atrum.
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BERMUDA GRASS THATCH DECOMPOSITION IN RELATION TO SPRING DEAD SPOT. (ABSTRACT).
R E McCoy H C Young
Phytopathology 58 (4):401
Apr 1968 464.8 P56
Cynodon dactylon, Fungus diseases (plants), Helminthosporium spiciferum, Spring dead spot.
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CHROMATOGRAPHIC PURIFICATION OF A SINGLE VIRAL PROTEIN IN SANDAL SPIKE.
B Menon-Nayer
Phytopathol Z 61 (2):167-170
Feb 1968 464.8 P562
Chromatography, Electrophoresis, Proteins, Santalum album, Spike (santalum), Virus diseases (plants).
English and German summaries.
Abstract
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INVESTIGATION OF VIRUS DISEASES OF HOPS. (POL)
B Micinski
Poznan Inst Ochrony Roslin Biul 36:231-235 REF
1967 464.9 P87
Hops, Leaf curl (hops), Leaf roll (hops), Virus diseases (plants).
English and russian abstract
Abstract
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INVESTIGATIONS ON FUNGICIDAL ACTIVITY OF COMBINED FUNGICIDES. (POL)
J Miernik M Stec J Gorska-Poczopko
Poznan Inst Ochrony Roslin Biul 36:201-22D REF
1967 464.9 P87
Fungicides, Pesticide application, Pesticide mixtures, Potentiometry.
English and russian abstract
Abstract
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VERTICILLIUM WILT OF HEDYSARUM CORONARIUM (SULLA).
J M Milton I Isaac
Plant Pathol 16 (2):73-75
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Fungus diseases (plants), Sulla sweetvetch, Verticillium dahliae.
Abstract
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FALL DEATH RATES OF DRONE HONEY BEES.
R A Morse G E Strang J Novakowski
J Econ Entomol 60 (5):1198-1202
Oct 1967 421 J822
Apis mellifera, Mortality.
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HONEY BEE INSECTICIDE LOSS - AN DNDSDAL CASE.
R A Morse A F Gunnison
J Econ Entomol 60 (5):1196-1198
Oct 1967 421 J822
Apis mellifera, Carharyl, Insecticide residues.
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INTERACTIONS BETWEEN VERTICILLIUM ALBO-ATRUM AND PRATYLENCHUS PENETRANS IN THE VERTICILLIUM WILT OF POTATOES. (ABSTRACT).
F Morsink A E Rich
Phytopathology 58 (4):401
Apr 1968 464.8 P56
Fungus diseases (plants), Plant disease resistance, Plant nematode resistance, Plant nematodes, Potatoes, Pratylenchus, Pratylenchus penetrans, Verticillium albo-atrum, Wilt (potatoes).

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EFFECT OF TRACE-ELEMENTS BOUND TO SUPERPHOSPHATES ON THE RESISTANCE OF POTATO TUBERS TO PHYTOPHTHORA INFESTANS (MONT.) DE BARY.
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Acta Phytopathol 2(4):295-302
1967 SR731.A3
Copper, Culture media, Fertilizers, Immunity, Magnesium, Micronutrients, Molybdenum, Phytophthora infestans, Potatoes, Superphosphates, Zinc.
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SPROUT ROT OF BRUSSELS SPROUTS. (ABSTRACT).
J J Natti
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Alternaria tenuis, Brussels sprouts, Fungus diseases (plants), Fusarium, Rhizoctonia solani, Rot (brussels sprouts).
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SYMPTOM EXPRESSION AND VARIETAL SUSCEPTIBILITY IN CARNATION, DIANTHUS CARYOPHYLLOS, INOCULATED WITH THE CARNATION STRAIN OF ERWINIA CHRYSANTHEMI.
P E Nelson R S Dickey
Phytopathology 58(2):142-146
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Dianthus caryophyllus, Erwinia chrysanthemi, Fungus diseases (plants), Plant disease resistance.
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Cochliobolus carbonum, Enzymes, Genetics, Pectinase, Reproduction.
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CHANGES IN RESPIRATION RATE OF TOBACCO LEAVES INFESTED WITH BACTERIA IN RELATION TO THE HYPERSENSITIVE REACTION.
J Nemeth Z Klement
Acta Phytopathol 2(4):303-308
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Bacteria, Biochemistry, Hypersensitivity, Injections, Leaves, Plant respiration, Pseudomonas fluorescens, Pseudomonas syringae, Pseudomonas tabaci, Time, Tobacco.
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THE FIRST OCCURRENCE OF DISEASE OF THE CARNATION CAUSED BY PSEUDOMONAS CARYOPHYLLI (BURKHOLDER) STARR ET BURKHOLDER IN HUNGARY.
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Bacteria, Dianthus caryophyllus, Plant diseases, Pseudomonas caryophylli, Vascular system (plants).
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THE EFFECT OF CERTAIN FUNGICIDES ON THE FORMATION OF ENDOTROPHIC MYCORRHIZA BY ENDOGONE FASCICOLATA ON CORN AND ON ROOT DEVELOPMENT IN SEEDLING CORN.
O N Nesheim
Diss Abstr Sect B 2B(12,PT.1):4837B
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Corn, Endogone fasciculata, Fungicides, Fungicides, Mycorrhiza, Plant physiology, Roots, Soil fumigation.
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HOST PLANTS FOR LABORATORY BEARING OF THE MELON APHID.
P A Norman R A Sutton
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Aphis, Insect rearing.
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RELATIONSHIPS BETWEEN TETRANYCHUS URTICAE KOCH AND SOME PLANT VIRUSES.
G R Orloh
Virology 35(1):121-133 REF
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Biological assay, Bnshy stant (tomatoes), Feeding, Leaves, Mites, Mosaic (tobacco), Tetranychus urticae, Tissues, Virus diseases (plants), Virus x (potatoes), Yellow dwarf (onions).
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OBSERVATIONS ON THE NATURE OF INHERITANCE OF RESISTANCE OF LUCERNE TO VERTICILLIUM ALBO-ATRUM.
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Alfalfa, Fungus diseases (plants), Plant disease resistance, Plant genetics, Verticillium albo-atrum, Wilt (alfalfa). Abstract
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G C Papavizas
Phytopathology 58(4):421-428 REF
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Density, Fungus diseases (plants), Immunization, Mortality, Root rot (beans), Roots, Soil fungi, Thielaviopsis basicola.
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STUDIES OF THE DEVELOPMENT OF POWDERY MILDEW (ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL) ON BARLEY. II. PRIMARY APPRESSORIA FORMATION.
C Paulech
Biologia (hratislava) 23(4):281-288 REF
1968 442.B B5265
Barley, Erysiphe graminis hordei, Fungus diseases (plants), Plant disease resistance, Plant physiology, Powdery mildew. English, russian and czech abstract
Abstract: In this paper there are quoted results of a comparing study of the primary appressoria formation of the powdery mildew (Erysiphe graminis f. sp. hordei Marchal) in susceptible and resistant host plants of barley. In the total dynamics of the primary appressoria formation on susceptible and resistant plants there were found no significant differences.
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W H Pawuk
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Acer saccharum, Fungus diseases (plants), Fusarium solani, Plant disease control, Reproduction, Seed germination, Tissues.
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METHOD OF DETERMINING THE SENSITIVITY OF FUNGUS SPORES TO HOT WATER.
C F Pierson
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Asexual reproduction, Fungus diseases (plants), Hot water treatment (plants), Penicillium expansum, Plant disease control.
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FIELD EVALUATION OF INSECTICIDES FOR THE CONTROL OF APHIDS ON POTATOES.
D D Pond
J Econ Entomol 60(5):1203-1205
Oct 1967 421 JB22
Aphididae, Bayer 25141, Disulfoton, Phorate, Phosphamidon, Potatoes.
- 16658-68
WATERMELON MOSAIC VIRUS: TUBULAR INCLUSIONS IN PUMPKIN LEAVES AND AGGREGATES IN LEAF EXTRACTS.
D E Purcifull J R Edwardson
Virology 32(3):393-401 REF
Jul 1967 448.B V81
Leaves, Morphology, Mosaic (watermelons), Pumpkins, Virus diseases (plants), Watermelons.
- 16659-68
NUCLEAR CRYSTALS IN ZINNIA AND OTHER NONSOLANACEOUS PLANTS INFECTED WITH TOBACCO ETCH VIRUS.
D E Purcifull J R Edwardson
Phytopathology 58(4):532-533
Apr 1968 464.B P56
Cassia tora, Chenopodium amaranticolor, Etch (tobacco), Tobacco, Virus diseases (plants), Zinnia elegans.
- 16660-68
HYPERPARASITES ON SOME ASCOMYCETES FROM HYDEBABAD, INDIA.
P N Rao
Mycopathol Mycol Appl 33(2):161-166
13 Nov 1967 450 M994
Ascomycetes, Fungi, Hyperparasitism, Plant taxonomy. Six fungi are recorded and described. Helminthosporium dorycarpum, Tetrasporium asterinearum, and Diploia sp. are hyperparasites on Heliola sp., Heliola aethiops

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- cassiae, and *Phyllachora sacchari spontanei*, respectively.
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FUNGI ON *BOUGAINVILLEA SPECTABILIS* WILLD.
K Rao
Mycopathol Mycol Appl 31(2):174-176
15 Mar 1967 450 M994
Ascomycetes, *Bougainvillea spectabilis*, Deuteromycetes, Fungi.
Collected on dead stems.
- 16662-68
INHIBITION OF *PORIA CARBONICA* BY *SCYTALIDIUM* SP., AN IMPERFECT FUNGUS ISOLATED FROM DOUGLAS-FIR POLES.
J L Ricard W R Rollen
Can J Bot 46(5):643-647 REF
May 1968 470 C16C
Basidiomycetes, Fungi, *Poria carbonica*, *Pseudotsuga menziesii*, wood decay.
French summary
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EFFECTS OF OZONE ON CONIDIOPHORES AND CONIDIA OF *ALTERNARIA SOLANI*.
S Rich h Tomlinson
Phytopathology 58(4):444-446
Apr 1968 464.8 P56
Alternaria solani, Fungus diseases (plants), Ozone, Reproduction.
- 16664-68
INTERACTION OF PATHOGENICITY GENES IN *PUCCINIA GRAMINIS* F. SP. TRITICI AND REACTION GENES IN *TRITICUM AESTIVUM* SSP. VULGARE "MARQUIS," "RELIANCE," AND "KOTA".
M R Rondon
Diss Abstr Sect R 28(12,PT.1):4848R
Jun 1968 Z5055.U49D53
Crop varieties, Fungus diseases (plants), Genes, Plant disease resistance, *Puccinia graminis tritici*, Stem rust (wheat), Wheat.
- 16665-68
ELECTRON MICROSCOPY OF X-BODY FORMATION IN CELLS OF CARRAGE INFECTED WITH BRASSICA VIRUS 3.
M Rubio-Huertos C Matsui A Yamaguchi T Kamei
Phytopathology 58(4):548-549
Apr 1968 464.8 P56
Brassica oleracea, Cabbage, Cytoplasm, Electron microscopy, Plant cytology, Virus diseases (plants), Virus 3 (cabbage).
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POSSIBLE PARTICLES OF REET WESTERN YELLOWS VIRUS IN THE INTESTINES OF VIRULIFEROUS APHIDS.
E G Ruppel
Phytopathology 58(2):256-257
Feb 1968 464.8 P56
Aphididae, Insect vectors, *Myzus persicae*, Sugar beets, Virus diseases (plants), Western yellows (sugar beets).
- 16667-68
A COMPARISON OF THE ELECTRON MICROSCOPE, MICROPRECIPITIN TESTS, AND INDICATOR PLANTS FOR THE DETECTION OF POTATO VIRUSES S, X, AND Y.
P J Sampson R R Taylor
Phytopathology 58(4):489-493 REF
Apr 1968 464.8 P56
Electron microscopes, Indicator plants, Plant disease forecasting, Precipitin test, Virus diseases (plants), Virus s (potatoes), Virus x (potatoes), Virus y (potatoes).
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EFFECTS OF HERBICIDES ON CARBON DIOXIDE UPTAKE BY PINE SEEDLINGS.
S Sasaki T T Kozlowski
Can J Bot 45(7):961-971 REF
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Carbon dioxide, Chemical control (plant diseases), Herbicides, Photosynthesis, *Pinus resinosa*, Plant respiration, Seedlings.
Abstract
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COMPARATIVE MORPHOLOGICAL AND PHYSIOLOGICAL STUDIES OF THE PROGENIES FROM INTRASPECIFIC MATINGS OF *PHYTOPHTHORA CAPSICI*.
M M Satour E E Rutler
Phytopathology 58(2):183-192 REF
Feb 1968 464.8 P56
Culture media, Fungus diseases (plants), Peppers, Physiology, *Phytophthora capsici*, Reproduction, Seed germination,
- Tomatoes.
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C02 ASSIMILATION AND YIELD OF LITTLE CLUR WHEAT INFECTED BY *SEPTORIA NODORUM*.
A L Scharen J M Taylor
Phytopathology 58(4):447-451 REF
Apr 1968 464.8 P56
Carbon dioxide, Fungus diseases (plants), Grain, Plant growth inhibitors, Plant metabolism, Plant respiration, *Septoria nodorum*, Wheat.
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IN VIVO AND IN VITRO DECLINE OF SPECIFIC INFECTIVITY OF TOBACCO RINGSPOT VIRUS CORRELATED WITH NUCLEIC ACID DEGRADATION.
I R Schneider T O Diener
Virology 35(1):150-157 REF
May 1968 448.8 VR1
Bentonite, Centrifugation, Correlation, Culture media, Nucleic acids, Proteins, Research, Ring spot (tobacco), Virus diseases (plants).
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EFFECT OF DIURNAL TEMPERATURE CYCLES ON THE PRODUCTION OF AFLATOXIN.
H W Schroeder H Hein
Appl Microbiol 16(7):988-990
Jul 1968 448.3 AP5
Aflatoxin, *Aspergillus parasiticus*, Culture media, Diurnal rhythm, Temperature, Toxicology.
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RELATIONSHIP OF CLIPPING FREQUENCY TO ROOT AND CROWN DETERIORATION IN RED CLOVER.
W M Siddiqui P M Halisky S Lund
Phytopathology 58(4):486-488
Apr 1968 464.8 P56
Defoliation, Fungus diseases (plants), Fusarium, Plant disease resistance, Red clover, Root rot (red clover).
Abstract: The severity of root rot in Pennscoot red clover increased when the frequency of clipping clover stands was increased.
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FACTORS AFFECTING ACUTE INJURY OF *PINUS STROBUS* BY OZONE. (ABSTRACT).
W A Sinclair A C Costonis
Phytopathology 58(4):403
Apr 1968 464.8 P56
Ozone, *Pinus strobus*, Plant injuries.
- 16675-68
SPREAD OF RED ROT IN THE LEAVES OF SUGARCANE PLANT.
G R Singh
Indian Phytopathol 20(3):220-225 REF
Sep 1967 464.8 IN2
Colletotrichum falcatum, Fungus diseases (plants), Red rot (sugarcane), Sugarcane.
Spores were carried from leaf sheath to leaf midrib through ligular region in detached leaves.
- 16676-68
MULTIPLICATION OF WHEAT STRIATE MOSAIC VIRUS IN ITS LEAFHOPPER VECTOR *ENDRIA INIMICA*.
R C Sinha L N Chykowski
Virology 32(3):402-405 REF
Jul 1967 448.8 VR1
Endria inimica, Insect vectors, Striate mosaic (wheat), Wheat.
- 16677-68
SEROLOGICAL DETECTION OF WHEAT STRIATE MOSAIC VIRUS IN EXTRACTS OF WHEAT PLANTS AND VECTOR LEAFHOPPERS.
R C Sinha
Phytopathology 58(4):452-455 REF
Apr 1968 464.8 P56
Antigens, Durum wheat, *Endria inimica*, Insect vectors, Mosaic (wheat), Serological tests, Virus diseases (plants).
- 16678-68
PATROGENIC VARIABILITY WITHIN *PHYTOPHTHORA PARASITICA* AS RELATED TO FORMATION OF POST-INFECTIONAL ANTIFUNGAL SUBSTANCES IN *PEPEROMIA*.
R S Siradhana
Diss Abstr Sect R 28(12,PT.1):4838B
Jun 1968 Z5055.U49D53
Apples, Fungicides, Fungus diseases (plants), Ornamental plants, *Peperomia*, *Phytophthora parasitica*, Vegetables.

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TOBACCO DISEASES IN KENTUCKY IN 1967.
J H Smiley R A Flowers
Plant Dis Rep 52(8):589
Aug 1968 1.9 P69P
Fungus diseases (plants), Plant diseases, Surveys, Tobacco.
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ERADICATION OF POTATO VIRUS X AND S BY THERMOTHERAPY AND AXILLARY BUD CULTURE.
R Stace-Smith F C Mellor
Phytopathology 58(2):199-203 REF
Feb 1968 464.6 P56
Culture media, Heat, Potatoes, Soil temperature, Thermotherapy, Virus s (potatoes), Virus x (potatoes).
Abstract
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A VIRUS DISEASE OF RHUBARB IN BRITISH COLUMBIA.
R Stace-Smith G G Jacoli
Can J Bot 45(7):1059-1061
Jul 1967 47D C16C
Insect vectors, Mosaic (turnips), Myzus persicae, Rhubarb, Virus diseases (plants).
Abstract
- 16682-68
EVIDENCE FOR POLYSOMES IN EXTRACTS OF BEAN BUST UROSPORES.
R C Staples D Bedigian P R Williams
Phytopathology 58(2):151-154 REF
Feb 1968 464.8 P56
Beans, Density, Electron microscopy, Radioactivity, Ribosomes, Rust (beans), Uredinales, Uromyces phaseoli.
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RESISTANCE TO PUCCINIA GRAMINIS DERIVED FROM SECALE CEREALE INCORPORATED INTO TRITICUM AESTIVUM.
D M Stewart E C Gilmore E R Ansems
Phytopathology 58(4):508-511
Apr 1968 464.8 P56
Fungus diseases (plants), Plant disease resistance, Plant genetics, Puccinia graminis, Rye, Triticum aestivum, Wheat.
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SEROLOGICAL INVESTIGATIONS OF RACES 1-8 OF PHYTOPHTHORA FRAGARIAE. (ABSTRACT).
C J Suerth E R Varney
Phytopathology 58(4):4D3
Apr 1968 464.8 P56
Genetics, Phytophthora fragariae, Serological tests.
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HUMUS ACIDS AS A NUTRITION SOURCE FOR SOME WHITE-ROT FUNGI.
M Tesarova L Schanel
Biol Plant 10(2):135-141 REF
1968 45D B52
Agar, Fungi, Humic acids, Plant nutrition.
English, Russian and Polish abstract
Abstract
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'SOIL VESSEL SYSTEM' OR ANALYSIS OF SOILS FROM DISEASED SEEDLINGS. (GE)
M Tesche
Phytopathol Z 61(2):197-199
Feb 1968 464.8 P562
Containers, Plant diseases, Seedlings, Soil microorganisms.
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RESISTANCE TO SPREAD OF VIRUS FROM CELL TO CELL IN T. I. 245 TOBACCO.
P E Thomas B W Fulton
Virology 35(1):108-111 REF
May 1968 448.8 V81
Cells, Injections, Light, Plant protection, Temperature, Tobacco, Virus diseases (plants).
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EFFECTS OF ULTRASONIC TREATMENT ON TURNIP MOSAIC VIRUS AND POTATO VIRUS X.
J A Tomlinson D G A Walkey
Virology 32(2):267-278 REF
Jun 1967 448.8 V81
Electron microscopy, Mosaic (turnips), Potatoes, Serological tests, Sound waves, Turnips, Virus diseases plants, Virus x (potatoes).
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LIGHT REQUIREMENT AND LIGHT INHIBITION OF SEXUAL REPRODUCTION IN FUSARIUM (HYPOMYCES) SOLANI F. SP. CUCURBITAE RACE 2.
T A Toussoun A R Weinhold
Can J Bot 45(6):951-954
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Culture media, Fungus diseases (plants), Fusarium solani, Light, Reproduction.
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CHEMICAL COMPOSITION AND BIOPHYSICAL PROPERTIES OF TOMATO RINGSPOT VIRUS.
J H Tremaine R Stace-Smith
Virology 35(1):102-107 REF
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Amino acids, Biophysics, Chemical reactions, Diffusion, Electrophoresis, Molecular weight, Nucleic acids, Ribonucleic acid, Ring spot (tomatoes), Virus diseases (plants).
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THE RELATIVE EFFICIENCY OF EAR-TO-ROW AND CONVERGENT IMPROVEMENT IN INCREASING DISEASE RESISTANCE OF ZEA MAYS.
V Dirich F S Snell
W Va Acad Sci Proc 39:235-242 REF
1967 500 W52
Corn, Plant disease resistance, Planting.
Abstract: Ear-to-row selection was ineffective in approving disease susceptible inbreds, but maintained good characteristics in disease resistance lines. Convergent improvement was effective in improving the resistance of susceptible lines when the nonrecurrent parent was a resistant or a susceptible line. Transgressive segregation played an important role with both resistant and susceptible nonrecurrent parents.
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STEM AND NEEDLE INOCULATIONS OF EASTERN WHITE PINE WITH THE BLISTER RUST FUNGUS.
E P Van Arsdel
Phytopathology 58(4):512-514 REF
Apr 1968 464.8 P56
Blister rust (pinus), Cronartium ribicola, Fungus diseases (plants), Pinus strobus, Plant disease resistance, Spraying.
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INVESTIGATIONS OF CHERRY RASP LEAF DISEASE IN CALIFORNIA.
H K Wagoner J Traylor H E Williams A C Weiner
Plant Dis Rep 52(8):618-622 REF
Aug 1968 1.9 P69P
Cherries, Plant disease transmission, Plant nematodes, Pinus bahaleb, Rasp leaf (cherries), Soil fauna, Virus diseases (plants).
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OXYGEN CONSUMPTION AND GERMINATION OF CRONARTIUM FUSIFORME AECIOSPORES.
C H Walkinshaw
Phytopathology 58(2):260-261
Feb 1968 464.8 P56
Cells, Cronartium fusiforme, Fungus diseases (plants), Oxygen, Pinus echinata, Seed germination.
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TWO GENETIC SYSTEMS CONTROL DISEASE REACTION TO STRAINS A AND B OF MAIZE DWARF MOSAIC VIRUS. (ABSTRACT).
C C Wernham G L Scheifle
Phytopathology 58(4):4D4
Apr 1968 464.8 P56
Dwarf disease (corn), Mosaic (corn), Plant disease resistance, Plant genetics, Virus diseases (plants).
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PROLIFERATIVE SYMPTOMS IN LEAPHOPPERS INFECTED WITH WESTERN X-DISEASE VIRUS.
B F Whitcomb D D Jensen
Virology 35(1):174-177
May 1968 448.8 V81
Arthritis, Celery, Cicadellidae, Colladonus montanus, Feeding, Plant anatomy, Virus diseases (plants).
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AN UNDESCIBED GALL MIDGE LEAF SPOT OF BALSAM POPLAR.
H S Whitney J A Baranyay
Phytopathology 58(2):262-263
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Cecidomyiidae, Cytology, Fungus diseases (plants), Leaf spot (Populus), Populus balsamifera.

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Fungus diseases (plants), Immunization, Picea glauca, Picea mariana, Plant disease resistance, Polyporus tomentosus, roots.
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STOMATAL PENETRATION OF WHEAT SEEDLINGS BY STEM AND LEAF RUSTS IN RELATION TO EFFECTS OF CARBON DIOXIDE, LIGHT, AND STOMATAL APERTURE.
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Phytopathology 58(4):500-507 REF
Apr 1968 464.8 P56
Carbon dioxide, Fungus diseases (plants), Leaf rust (wheat), Light, Plant disease resistance, Puccinia graminis tritici, Seedlings, Stem rust (wheat), Stomata, Wheat.
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A COMPARISON OF SPECIES OF APHIDIDAE WITH SPECIES OF THREE OTHER APHID FAMILIES REGARDING VIRUS TRANSMISSION AND PROBE BEHAVIOR.
F W Zettler
Phytopathology 57(4):398-400
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Aphididae, Mosaic (beans), Plant disease transmission.
- Arthropods**
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NEW RESULTS ON THE CONTROL OF THE MILLET CATERPILLAR, LAPHYGMA FRUGIPERDA. (POL)
P R Almeida R D Cavalcante G de Sordi
Biologico 33(6):126-128
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Chemical control (insects), Insect control, Insecticides, Laphygma frugiperda, Millet, Noctuidae.
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THE POSSIBILITIES OF DEVELOPMENT OF CHEMICAL METHODS FOR THE PLANT PEST CONTROL. (POL)
E Bakuniak M Gwiazda J Kroczyński
Poznan Inst Ochrony Roslin Biul 36:27-138 REF
1967 464.9 P87
Attractants, Chemical control (insects), Insecticide residues, Plant pest control.
English and russian abstract
Abstract
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FELTED GRASS COCCIO ON RHODES GRASS IN QUEENSLAND.
A R Brimblecombe
Queensland Agr J 94(4):258-261
Apr 1968 23 Q33
Antonina graminis, Chloris gayana, Climate, Coccidae, Insect behavior, Insect control, Insect outbreaks, Insect pests, Plant hardiness, Soils, Zoogeography.
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THE IMPACT OF TULIPTREE SCALE FEEDING ON ITS HOST, YELLOW-POPLAR.
O P Burns
Oiss Abstr Sect 8 58(12,PT.1):50628
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Carbon, Feeding, Insect behavior, Liriodendron tulipifera, Mortality, Toumeyella liriodendri.
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INSECT PESTS OF FARM, GARDEN, AND ORCHARO. S8951. 03.
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Crops, Fruit, Gardens, Insect control, Insect pests, Plant pest control.
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R N Hofmaster R L Waterfield J C Boyd
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Oct 1967 421 J822
Aldrin, Chlordane, Epitrix, Phorate, Potatoes.
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T Horachong
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Jun 1966 Z5055.U49D53
Caterpillars, Crop varieties, Oiatraea grandiosella, Heliothis zea, Insect nutrition, Insect physiology, Insect rearing, Plant breeding, Plant pest resistance, Sorghum, Spodoptera frugiperda.
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INTEGRATED PEST CONTROL IN ORCHARDS. (POL)
R Leski
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1967 464.9 P87
Chemical control (insects), Insect control, Insecticide application, Integrated control (insects).
English and russian abstract
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AN EVALUATION OF RIDGBIN FOR CONTROL OF SCOLYIUS MULTISTRIATUS, THE PRIMARY VECTOR OF CERATOCYSTIS ULMI.
A C Lincoln
Oiss Abstr Sect 8 28(12,PT.1):4830B
Jun 1968 Z5055.U49D53
Ceratocystis ulmi, Chemical control (insects), Dieback (ulmus), Fungus diseases (plants), Hydroxy-N,N-dimethyl-cis-crotonamide dimethylphosphate, 3-, Insect vectors, Insecticides, Scolytus multistriatus, Ulmus americana.
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BIOPHYSICAL AND BIOCHEMICAL STUDIES ON THE NATURE OF RESISTANCE OF PINEAPPLES TO THE ORIENTAL FRUIT FLY.
E A Macion W C Mitchell J B Smith
J Econ Entomol 61(4):910-916
15 Aug 1968 421 J822
Biochemistry, Biophysics, Culture media, Dacus dorsalis, Hydrogen-ion concentration, Immunity, Insect cages, Insect eggs, Insect physiology, Oviposition, Pineapples, Research.
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POSSIBILITIES OF APPLYING CHEMOSTERILANTS IN PLANTS PROTECTION. (POL)
Z Przezdziecki J Bankowska
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1967 464.9 P87
Blood cells, Chemosterilants, Reproductive organs, Toxicology.
English and russian abstract
Abstract
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FIELD-CAGE RELEASES OF CHRYSOPA CARNEA FOR SUPPRESSION OF POPULATIONS OF THE BOLLWORM AND THE TOBACCO BUDWORM ON COTTON.
S L Bidgway S L Jones
J Econ Entomol 61(4):892-898 REF
15 Aug 1968 421 J822
Chrysopa carnea, Heliothis virescens, Heliothis zea, Insect cages, Insect control, Insect eggs, Larvae, Population.
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LEAF PUBESCENCE IN COMMON WHEAT, TRITICUM AESTIVUM L., AND RESISTANCE TO THE CEREAL LEAF BEETLE, OULEMA MELANOPUS (L.).
K Ringlund
Diss Abstr Sect 8 28(12,PT.1):48478-4848B
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Leaves, Oulema melanopus, Plant pest resistance, Wheat.
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DISEASES AND PESTS OF THE MORE IMPORTANT CROPS IN 1966 AND THE FORECAST FOR 1967. (POL)
A Studzinski P Kagan K Piekarczyk
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1967 464.9 P87
Insect outbreak forecasting, Plant disease forecasting.
English and russian abstract
Abstract
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THE USE OF ORGANOCHEMICAL INSECTICIDES AND POSSIBLE ALTERNATIVES AGAINST LEATHERJACKETS.
J B White

Plant Pathol 16(2):83-88
 Jun 1967 464.8 P692
 Aldrin, Barley, Benzene hexachloride,
 Chemical control (insects), Chlorinated hydrocarbons, Ddt,
 Food contamination, Insecticides, Lindane, Paris green,
 Tipulidae, wheat.
 Abstract

Nematodes

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 ACTION OF AQUEOUS IODINE ON OVA OF ASCARIS LUMBRICOIDES
 AN ASCARIS SUUM.
 Zaman N Visuvalingam
 Roy Soc Trop Med Hyg Trans 61(3):443-444
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 Ascaris lumbricoides, Ascaris lumbricoides suum,
 Centrifugation, Chemical control (insects), Dosage,
 Insect eggs, Iodine, Larvae, Ova, Sterilization, Vegetables.
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 CEREAL ROOT EELWORM PATHOTYPES IN ENGLAND AND WALES.
 J Cotten
 Plant Pathol 16(2):54-59 MAP
 Jun 1967 464.8 P692
 Barley, Crop varieties, Heterodera avenae, Oats,
 Plant nematode resistance.
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 AFFECTED BY AMINO AND NONAMINO ACID FRACTIONS OF ROOT
 EXUDATES.
 R A Hamlen J R Bloom
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 Apr 1968 464.8 P56
 Amino acids, Growth factors, Meloidogyne incognita,
 Root excretions.
 Abstract: The amino acid fractions yielded a significantly
 greater hatch than the nonamino acid fractions but not
 greater than that of the distilled water check.
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 APHELENCHOIDES ECHINOCAUDATUS SP. N. (NEMATODA,
 APHELENCHOIDIDAE). (RU)
 M M Haque
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 Aphelenchoides echinocaudatus, Corn, Plant nematodes,
 Taxonomy.
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 Culture media, Gonads, Meloidogyne incognita acrita,
 Nematodes, Tomatoes.
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 EFFECT OF THE NEMATODE APHELENCHUS AVENAE ON SOME
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 MYCORRHIZAL RELATIONSHIP.
 J R Sutherland J A Portin
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 Apr 1968 464.8 P56
 Aphelenchus avenae, Culture media, Fungi, Mycorrhiza,
 Parasites, Pinus resinosa.
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 IN PANAMA.
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 Heterodera rostochiensis, Plant nematodes, Potatoes.
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 THE INFLUENCE OF TEMPERATURE ON LONGEVITY AND GERMINATION OF
 SEED OF WESTERN DWARF MISTLETOE.
 K M Beckman L F Roth
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 Arceuthobium campylopodum, Seed germination, Temperature.
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 LOWER ALIPHATIC ESTERS OF N-PHENYL AND N-M-CHLOROPHENYL
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 Carbamates, Esters, Herbicides, Patents.
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 Chemical control (weeds), Herbicides, Patents,
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 Patents, Plant growth inhibitors.
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 Chemical control (weeds), Ethers, Herbicides, Patents.
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 J P Olin
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 Methodology, Patents.
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15 Jun 1968 41.8 V641
Anthelmintics, Cattle, Epidemiology, Fascioliasis, Liver, Parasitism, Research, Sheep.
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Z Parasitenk 30(2):171-175
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Animal physiology, Biochemistry, Echinococcus granulosis, Lungs.
English, German and French abstract
Abstract
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Anthelmintics, Dictyocaulus filaria, Gastrointestinal system, Nematodes, Parasitism, Sheep.
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Animal histology, Animal physiology, Deer, Fasciola hepatica.
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Aging, Animal diseases, Cattle, Dictyocaulus viviparus, Immunity, Larvae, Nematodes.
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Anthelmintics, Metastrongylus apri, Nematodes, Swine, Tetramisole.
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Calves, Fasciola gigantica, Paralysis, Spinal cord, Trematoda.
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D Zajicek
Folia Parasitol 15(00):169-172 8EP
1968 436.8 C33
Agglutination test, Ducks, Leucocytozoon anatis, Parasitism, Protozoa, Trypanosoma.
Parasites found in quarantined bird imported from Hungary; no illness was apparent.
Abstract

40 COMMODITY PROTECTION

Storage Diseases

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EFFECT OF PH ON RECOVERY OF FUNGI FROM FOODS.
F E Mace J A Koburger
W Va Acad Sci Proc 39:102-106
1967 500 W52
Acids, Agar, Food, Fungi, Hydrogen-ion concentration,
Nutrient solutions (plants), Plant physiology.
Abstract: Cooke Rose Bengal Agar (pH 6.0) was found su-
perior to Potato Dextrose Agar (pH 3.5) for the isola-
tion and enumeration of fungi from foods. There appears to
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FUNGUS FLORA, GERMINABILITY AND FAT ACIDITY VALUES OF STORED
CORN.
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Aspergillus, Corn, Corn oil, Humidity,
Hydrogen-ion concentration, Molds, Seed germination,
Storage diseases, Stored products, Temperature.
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G H Spitler P L Hartsell
J Econ Entomol 60(5):1456-1458
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Almonds, Malathion, Storage diseases.

Arthropods

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GLYCYPHAGIDAE), A PEST OF STORED GRAIN.
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Glycyphagidae, Glycyphagus domesticus, Grain, Humidity,
Insect pests, Reproduction, Stored products, Temperature.
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Animal morphology, Culture media, Eggs, Larvae, Mice, Tissues,
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Summary in French

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 Adsorption, Aquifers, Chlorinated hydrocarbons, Dieldrin, Hydrogen-ion concentration, Lindane, Organic compounds, Particle size determination, Pesticides, Soil contamination, Soil leaching, Solutes, Temperature, Water pollution.

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 DRIFT OF WATER-DILUTED AND UNDILUTED FORMULATIONS OF MALATHION AND AZINPHOSMETHYL APPLIED BY AIRPLANE.
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 15 Aug 1968 421 J822
 Aerial spraying, Air flow, Azinphosmethyl, Biochemistry, Biological assay, Insecticide residues, Insecticides, Malathion, Water, Wind.
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 A Bojanowska
 Poznan Inst Ochrony Roslin Biul 36:149-162
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 Pesticide residues, Quantitative analysis, Toxicology.
 English and russian abstract
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 L W Morgan D B Leuck E W Beck D W Woodham
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 Colorimetry, Disulfoton, Insecticide residues, Potatoes.
 English and russian abstract
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 Glucocorticoids, Glyconeogenesis, Glycoproteins,
 Hypercortisonism, Hyperglycemia, Metabolism diseases,
 Polydypsia, Polyuria, Toxicology.
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 (A CHLORINATED NAPHTHALENE DERIVATIVE) IN MAMMALIAN TISSUE
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 H S Ener
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 Aldrin, Biological assay, Chemical analysis,
 Chlorinated hydrocarbons, Epinephrine, Norepineprine,
 Rabbits, Rats, Tissues, Toxicology.
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 Soils, Toxicology.
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 Carcinogens, Chemistry, Chromatography, Culicidae,
 Insect repellents, Insecticidal aerosols, Pyrethrum, Smoke,
 Tobacco.
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 ACUTE TOXICITY OF N-ALPHA-OLEPIN SULFONATES.
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 Agr Biol Chem 31(12):1509-1510
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 Biochemistry, Detergents, Immunization, Mice, Olefins,
 Sulfonic acids, Surface-active agents, Toxicity,
 Water pollution.
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 PESTICIDAL N-ACYL-N-LOWER ALKYL CARBAMATES OF PHENOLS AND
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 INVESTIGATION OF REPORTED AFLATOXIN PRODUCTION BY FUNGI
 OUTSIDE THE ASPERGILLUS FLAVUS GROUP.
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 Aflatoxin, Aspergillus flavus, Aspergillus parasiticus, Pungi,
 Research.

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

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THE EFFECT OF 2,4-DICHLOROPHENOXYACETIC ACID UPON THE METABOLISM AND COMPOSITION OF SOYBEAN HYPOCOTYL MITOCHONDRIA.
R Baxter
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Amino acids, D, 2,4-, Electrophoresis, Mitochondria, Phospholipids, Phosphorylation, Plant composition, Plant metabolism, Plant respiration, Proteins, Ribonucleic acid, Soybeans.
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W Va Acad Sci Proc 39:89
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Callus (plants), Cell division, Chloramphenicol, Mitosis, Plant growth inhibitors, Plant hormones, Plant metabolism, Ribonucleic acid, Soybeans.
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IN VITRO CULTURE OF A DWARF MISTLETOE, ARCEUTHOBIMUM PUSILLUM.
J M Bonga C Chakraborty
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Arceuthobium pusillum, Culture media, Plant physiology, Seed germination.
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D B Carlson
Diss Abstr Sect B 28(12,PT.1):4831B
Jun 1968 Z5055.U49D53
Apples, Herbicides, Nitrogen, Pears, Plant biochemistry, Simazine.
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E A Curl
Can J Microbiol 14(2):182-183
Feb 1968 44B.8 C162
Alkaloids, Dyes, Mucoraceae, Phosfon, Plant growth inhibitors, Plant regulators, Potassium gibberellate, Rose bengal, Soil fungi, Trichoderma.
Abstract: Most of the chemicals did not compare favorably with rose bengal, but phosfon used at 500 micrograms/ml significantly increased numbers of fungal colonies per plate and surpassed fast growing fungi.
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Brucella, Enzymes, Interferon, Microbiology, Morphology, Proteins.
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J HacsKaylo
J Econ Entomol 61(4):11D8-1110
15 Aug 1968 421 J822
Biochemistry, Cotton, Dosage, Insect pests, Insecticide application, Insecticides, Plant physiology, Planting, Seedlings, Temik, Temperature, Upland cotton.
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THE DISSOCIATION OF BACILLUS THURINGIENSIS.
C I Hannay
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Bacillus thuringiensis, Biochemistry, Culture media, Fungi, Plant physiology, Vitamins.
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Aldolase, Enzymes, Fructose, Fungus diseases (plants), Fusarium oxysporum lycopersici, Metabolism, Sterilization, Tomatoes, Toxins.
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OZONE DAMAGE AND SEMIATURE-TISSUE NEEDLE BLIGHT OF EASTERN WHITE PINE.
S N Linzon
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Needle blight (pinus), Ozone, Pine needles, Pinus strobus, Plant diseases, Plant injuries, Tissues.
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T C McDowell
Diss Abstr Sect B 28(12,PT.1):4832B
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Calcium, Nitrogen, Plant biochemistry, Plant nutrition, Rhododendron, Succinic acid, 2,2-dimethylhydrazide.
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THE PARTITIONING AND DISTRIBUTION OF SIMAZINE AND PROPANIL IN SPINACH CHLOROPLASTS.
T J Monaco
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Carbon isotopes, Chloroplasts, Herbicides, Hill reaction, Hydrogen-ion concentration, Methylamine, Plant biochemistry, Propanil, Radioactive tracers, Simazine, Spinach.
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Benzoyl peroxide, Dithiocarbamates, Ferham, Thiram.
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Callus (plants), Pelargonium hortorum, Plant cuttings, Plant disease transmission, Plant propagation.
Successful production of disease-free plants.
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METHOD OF CONTROLLING FUNGI WITH SULFONIUM IODIDES. PATENT 3,4D2,248.
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Acetanilide compounds, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Iodides, Methodology, Patents.
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F C Richardson
Diss Abstr Sect B 5B(12,PT.1):
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Aquatic weeds, Brasenia schreberi, Plant anatomy, Plant physiology.
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H Both
J Econ Entomol 61(4):988-99D REF
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Biochemistry, Carbon tetrachloride, Cupressus, Fumigation, Larix, Picea, Pinus, Plant hardiness, Plant injuries, Seed germination, Seedlings, Thuja.

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Corn, Crop yields, Defoliation, Lodging (corn), Plant physiology, Planting, Smut (corn), Ustilago maydis.
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Abstract: The roots showed considerably greater sensitivity to the chemical than did the shoots and wheat appeared to be 10 times as sensitive as tomatoes. Roots grown in sterile excised culture showed a similar response to the roots of intact seedlings.
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Alternaria solani, Fluorescent lamps, Light, Plant physiology, Plant propagation.
Abstract: Most effective color of visible spectrum in inducing sporulation is green.
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Ethyl methanesulfonate, Irradiation, Plant abnormalities, Plant biochemistry, Plant genetics, Plant physiology, Potatoes, X-rays.
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Dichloro-4-nitroaniline, 2,6-, Glucose, Nucleic acids, Plant metabolism, Rhizopus.
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Biological transport, Culture media, Isotopes, Phosphorus, Plant physiology, Sclerotia, Sclerotium rolfssii.
Abstract: Translocation from old to young portions of cultures, and when cultures were about 400ft-c of light rather than darkness.
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Absorption (biological), Carbon isotopes, Chromatography, Environment, Herbicides, Iron, Phosphorus, Plant biochemistry, Plant metabolism, Plant respiration, Plant translocation, Radioactive tracers, Rainfall, Soil moisture, T, 2,4,5-, Temperature, Ulmus alata.
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K H Yeh
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Armoracia lapathifolia, Biochemistry, Chromatography, Enzymes, Hydrogen-ion concentration, Indole-3-acetaldehyde, Indoleacetic acid, Methylindole-3-acetaldehyde, 1-, Peroxidases, Plant regulators.

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Bactericides, Fungicides, Isothiazolecarboxylates, Methodology, Patents.
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Culture media, Mycoplasma, Panmede, Papain.
Abstract: Instead of 8.U.O.F.S. it was thought worthwhile to investigate whether a medium could be devised which would permit the viability of strain V5 grown in it to be prolonged. The two media described are more easily prepared than 8.U.F.O.S., and based on Panmede (a papain digest of ox liver).
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Acaricides, Cyclohexanones, Fungicides, Herbicides, Insecticides, Nematocides, Patents.
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Amino compounds, Bipyridylum, 4,4'-, Herbicides, Nitrogen, Patents.
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Blood, Chlorinated hydrocarbons, Chromatography, Hexane, Insecticides, Pesticide analysis, Silver nitrate, Spraying, Tissues, Ultraviolet rays.
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Alcohol, Methodology, Patents, Phosphorus compounds, Sulfur, Water.
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Acetanilide compounds, Fungicides, Halogen compounds, Nematocides, Patents.
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Alcohols, Insecticides, Melting points, Patents.
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National Communicable Disease Center	16848	Vanderbilt R. T. Co., Inc., New York, N. Y.	16591
U. S. Rubber Company, New York, New York	16726	Velsicol Chemical Corporation, Chicago	16733
U.S. Dept. Of Agriculture, Baton Rouge, La.		Veterinary Investigation Centre, Madingley Road, Cambridge	
Agricultural Research Service		16747	
Entomology Research Division	16310	Virginia Polytechnic Institute	
U.S. Dept. Of Agriculture, Beaumont, Tex.		Dept. Of Entomology	16409
Agricultural Research Service		Virginia Polytechnic Institute, Blacksburg	16335
Cereal Crops Research Branch	16537	Virginia Truck Experiment Station, Painter Eastern Shore Branch	16706
U.S. Dept. Of Agriculture, Beltsville, Md.		Virginia University Pesbroke	
Agricultural Research Service	16331	Mountain Lake Biological Station	16397
U.S. Dept. Of Agriculture, Brownsville, Tex.		Warner-lambert Pharmaceutical Co., Morris Plains, N. J.	
Agricultural Research Service	16494	16971	
Entomology Research Division		Washington State University	
U.S. Dept. Of Agriculture, Fort Valley, Ga.	16305	Tree Fruit Research Center	16272
Agricultural Research Service		Waterloo University, Ontario, Canada	
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U.S. Dept. Of Agriculture, Fresno, Calif.	16898	Wisconsin University, Madison	
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Market Quality Research Division		World Health Organization	
U.S. Dept. Of Agriculture, Fresno, Calif.	16896	Filaria Research Unit, Rangoon, Burma	
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Stored-Product Insects Research Branch		Division of Environmental Engineering and Food Protection	
U.S. Dept. Of Agriculture, Gainesville, Fla.	16297 16300	16500	
Agricultural Research Service		World Health Organization	
Entomology Research Division	16322	Filaria Research Unit, Rangoon, Burma	
U.S. Dept. Of Agriculture, Kerrville, Tex.		U. S. Public Health Service	
Agricultural Research Service	16866	Division of Environmental Engineering and Food Protection	
Entomology Research Division		16501	
U.S. Dept. Of Agriculture, Manhattan, Kans.			
Agricultural Research Service	16276		
Market Quality Research Division			
Stored-Product Insects Research Branch			
U.S. Dept. Of Agriculture, Orlando, Fla.			
Agricultural Research Service			

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